

EXHIBIT 1

1 IN THE UNITED STATES DISTRICT COURT
2 FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
3 CHARLESTON DIVISION
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7 IN RE: ETHICON, INC., PELVIC : MASTER FILE NO.
REPAIR SYSTEM PRODUCTS : 2:12-MD-02327
8 LIABILITY LITIGATION : MDL NO. 2327

9 :
THIS DOCUMENT RELATES TO ALL :
10 WAVE 4 AND SUBSEQUENT WAVE CASES : JOSEPH R. GOODWIN
AND PLAINTIFFS: : U.S. DISTRICT JUDGE
11 :
Rebecca Melton :
12 CASE NO. 2:12-cv-04094 :

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16 Transcript of deposition of BRIAN D. PARKER, M.D.,
17 taken by Charlene M. Shade, LCR, Notary Public, at the
18 Hilton Garden Inn West, 216 Peregrine Way, Knoxville,
19 Tennessee on Tuesday, March 14, 2017, commencing at 8:30
20 a.m.
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23
24
25

	Page 2	Page 4
1	APPEARANCES:	1 EXHIBITS
2	ON BEHALF OF THE PLAINTIFFS:	2 NUMBER/DESCRIPTION
3	AYLSTOCK, WITKIN, KREIS & OVERHOLTZ, PLC	3
4	BY: D. RENEE BAGGETT, ESQUIRE	4 1 Deposition Notice 9
5	17 East Main Street	5 2 Expert Report Of Dr. Parker 10
6	Suite 200	6 3 Curriculum Vitae 10
7	Pensacola, Florida 32563	7 4 General Reliance List 10
8	850.202.1010	8 5 Supplemental Reliance List 10
9	Rbaggett@awkolaw.com	9 6 Invoices Of Dr. Parker 10
10		10 7 Exhibit Notebook Prepared By Defendants 10
11	ON BEHALF OF THE DEFENDANTS:	11 8 Thumb Drive - Reliance List 10
12	BUTLER SNOW	12
13	BY: JORDAN N. WALKER, ESQUIRE	13
14	Renaissance at Colony Park	14
15	1020 Highland Colony Parkway	15
16	Suite 1400	16
17	Ridgeland, Mississippi 39157	17
18	601.948.5711	18
19	Jordan.walker@butlersnow.com	19
20		20
21		21
22		22
23		23
24		24
25		25
	Page 3	Page 5
1	INDEX	1 (Time 8:30 a.m.)
2	WITNESS: BRIAN D. PARKER, M.D.	2 BRIAN D. PARKER, M.D.,
3		3 having been first duly sworn, was examined and testified as
4	Examination By Ms. Baggett	4 follows:
5	Examination By Mr. Walker	5 EXAMINATION
6	Examination By Ms. Baggett	6 BY MS. BAGGETT:
7		7 Q. Good morning, Dr. Parker.
8		8 A. Good morning.
9		9 Q. Could you please state your full name for
10		10 the record.
11		11 A. Brian David Parker.
12		12 Q. And can you tell us where you're working
13		13 currently?
14		14 A. Tennessee Urology Associates.
15		15 Q. And how long have you been with them?
16		16 A. Since 2005.
17		17 Q. And when did you first become associated
18		18 with Ethicon with regards to this litigation, if you
19		19 recall?
20		20 A. Around November of 2016.
21		21 Q. And what capacity was that in initially?
22		22 A. What capacity?
23		23 Q. Was it preceptor? Was it --
24		24 A. No. No. It was only for the purpose of
25		25 being an expert witness.

Page 6	Page 8
<p>1 Q. And have you served as an expert before?</p> <p>2 A. No.</p> <p>3 Q. Have you been involved with Ethicon in any</p> <p>4 other capacity as a consultant?</p> <p>5 A. No.</p> <p>6 Q. In looking at your CV, I saw that you may</p> <p>7 have been involved with another device manufacturer. What</p> <p>8 other manufacturers have you been involved with consulting?</p> <p>9 A. With Galil Medical. They have a</p> <p>10 cryoablation machine for malignancy. I'm a proctor for</p> <p>11 Medtronic and for Coloplast. I'm a proctor for their Altis</p> <p>12 line.</p> <p>13 Q. How long have you been a proctor for</p> <p>14 Coloplast?</p> <p>15 A. Well, probably three years, but, honestly,</p> <p>16 I've only proctored a few times. Yeah, probably about</p> <p>17 three years.</p> <p>18 Q. And how long have you been performing</p> <p>19 procedures that include vaginal mesh products?</p> <p>20 A. Since residency, so that would be</p> <p>21 somewhere around two thousand and -- no. Let's see. Yeah,</p> <p>22 probably around 2001, 2002.</p> <p>23 Q. Do you recall what the first mesh product</p> <p>24 was that you were familiar with?</p> <p>25 A. The TVT retropubic.</p>	<p>1 but if you could give me some idea what those cases were</p> <p>2 about.</p> <p>3 A. It was the same case, and I had to be</p> <p>4 deposed twice because it went to mistrial, and it was about</p> <p>5 a surgery for renal cell cancer. We were found not guilty,</p> <p>6 but that process took three or four years.</p> <p>7 Q. So you're somewhat familiar with the</p> <p>8 deposition process?</p> <p>9 A. A little bit.</p> <p>10 Q. The main rules, obviously, are to have</p> <p>11 speaking responses, no nodding of the head. Let me finish</p> <p>12 my question so that we don't talk over each other and --</p> <p>13 A. Okay.</p> <p>14 Q. -- I'll try to do the same for you. I</p> <p>15 know time is short, and as we get closer to the end of my</p> <p>16 time, I talk a lot faster. I don't do that to mean any</p> <p>17 disrespect, but we are limited on what time and there's a</p> <p>18 lot, as you know, to be covered under these circumstances.</p> <p>19 A. Uh-huh.</p> <p>20 Q. I was provided some invoices. Let's go</p> <p>21 ahead and take care of a couple things before we move to</p> <p>22 that, though.</p> <p>23 I'm going to hand you what's been marked</p> <p>24 as Exhibit 1. This is the notice of deposition in this</p> <p>25 case.</p>
Page 7	Page 9
<p>1 Q. And were you trained in residency on how</p> <p>2 to use it or did you attend classes that were held by</p> <p>3 Ethicon?</p> <p>4 A. I trained in residency.</p> <p>5 Q. And were you provided materials during</p> <p>6 that training period, do you recall?</p> <p>7 A. That's been a long time since then, so I</p> <p>8 don't recall any materials, no.</p> <p>9 Q. Would you have seen the IFU, for instance,</p> <p>10 potentially in your --</p> <p>11 A. In residency?</p> <p>12 Q. In training.</p> <p>13 A. In the training for TVT retropubic?</p> <p>14 Q. Yes, sir.</p> <p>15 A. No.</p> <p>16 Q. Have you ever been deposed before today?</p> <p>17 A. Yes.</p> <p>18 Q. How many times?</p> <p>19 A. Twice.</p> <p>20 Q. In what capacity were you deposed?</p> <p>21 A. Malpractice case.</p> <p>22 Q. And were you a witness or were you a</p> <p>23 party?</p> <p>24 A. A party.</p> <p>25 Q. And we don't have to go deep into details,</p>	<p>1 (Exhibit 1 - Deposition Notice)</p> <p>2 A. Yes.</p> <p>3 Q. And I wanted to ask if you recall seeing</p> <p>4 that before today.</p> <p>5 A. I have.</p> <p>6 Q. And if you'll turn toward the mid section,</p> <p>7 I think it's entitled Schedule A.</p> <p>8 A. Uh-huh.</p> <p>9 Q. Have you seen Schedule A before today?</p> <p>10 A. I scanned through the first few pages. I</p> <p>11 don't know that I've read through every bit of it, but I</p> <p>12 did look through some of this. Schedule A. Okay. Yes.</p> <p>13 Q. And the Schedule A is a request for the</p> <p>14 production of documents and things, and I noticed that</p> <p>15 you've brought both a book binder and a thumb drive. So</p> <p>16 are those materials brought in response to Schedule A?</p> <p>17 A. Yes.</p> <p>18 MR. WALKER: Let me interject and state</p> <p>19 for the record, we have brought a thumb drive and</p> <p>20 the thumb drive contains all of his general</p> <p>21 reliance materials.</p> <p>22 MS. BAGGETT: Okay. You can put that</p> <p>23 aside for now. And we're going to mark for</p> <p>24 Exhibit 2 the expert report that you prepared in</p> <p>25 this matter.</p>

Page 10	Page 12
1 (Exhibit 2 - Expert Report Of Dr. Parker)	1 estimate, doing your own research?
2 MS. BAGGETT: And we'll go ahead and mark	2 A. At least 30 hours.
3 as Exhibit 3 the CV.	3 Q. What type of research did you do? What
4 (Exhibit 3 - Curriculum Vitae)	4 type of search did you perform?
5 MS. BAGGETT: And 4 and 5 will be your	5 A. Well, PubMed searches, of course. You
6 general reliance list and your supplemental	6 know, I had some of my own, you know, old journals,
7 reliance list. And I wanted to do that before I	7 reviewed those. Some of the stuff from textbooks, chapters
8 got ahead of myself and forgot to do so.	8 that had been written in the past. So just a
9 (Exhibit 4 - General Reliance List)	9 conglomeration of a lot of things. The majority of it was
10 (Exhibit 5 - Supplemental Reliance List)	10 probably PubMed, you know, on-line research.
11 MS. BAGGETT: I'm going to also go ahead	11 Q. How much time would you estimate that you
12 and mark as -- I think the last exhibit was	12 spent reviewing materials that were provided to you by
13 Exhibit 5?	13 Ethicon?
14 MR. WALKER: Yeah.	14 A. I'm going to say probably the same amount,
15 MS. BAGGETT: As Exhibit 6 we'll mark your	15 if not more. Maybe 40 hours, probably.
16 invoices.	16 Q. And in reviewing the materials that were
17 (Exhibit 6 - Invoices Of Dr. Parker)	17 supplied to you from Ethicon, did you look at every
18 MS. BAGGETT: Exhibit 7 will be your	18 document that was supplied to you?
19 binder.	19 A. I made a good effort. I mean, you can ask
20 (Exhibit 7 - Exhibit Notebook Prepared By	20 my wife; I wasn't around a whole lot. I mean, I spent a
21 Defendants)	21 lot of time reviewing everything I could. Could I remember
22 MS. BAGGETT: And Exhibit 8 will be the	22 everything? Probably not right now, but I tried.
23 thumb drive.	23 Q. But you think you've at least put your
24 (Exhibit 8 - Thumb Drive - Reliance Lists)	24 hands on everything that was in your reliance list?
25 BY MS. BAGGETT:	25 A. Some form or another. There may be areas
Page 11	Page 13
1 Q. Okay. Turning to your invoice -- and I'll	1 I may not have been able to get all of, because that was a
2 pass it back to you if you need to refer to it, but I'm	2 large amount. There was a lot of volume of this. I may
3 just going to ask you generally about it.	3 not have seen every little bit of everything, but the
4 It appears that, if my calculations are	4 majority of it I did.
5 correct, you spent about 160 hours or so on this project.	5 Q. So each one of the -- if you want to take
6 Does that sound right?	6 a look at the first reliance list. Can you tell me if you
7 A. That sounds right.	7 know the difference between what was in the first reliance
8 Q. Okay. And -- well, I'll let you just tell	8 list that is different to what was added -- or I got that
9 me what some of those things consisted of, and you can use	9 backwards.
10 the document to refresh your recollection.	10 Can you tell me what was added to the
11 A. Okay.	11 supplemental reliance list that is different to what was
12 Q. What did you do to prepare to draft the	12 originally submitted in the --
13 report in this matter?	13 A. Yeah, I think those would be the things
14 A. Well, you know, the first thing I had to	14 that I've -- some of the on-line things that I did that I
15 do was get an overview of -- or meet Jordan, so there was	15 needed the full articles pulled on. Some extra -- you
16 some time we had to meet. And then I did quite a bit of	16 know, as new studies come out, getting the new studies,
17 review of the medical literature. Some was supplied by	17 those type of things.
18 Ethicon, a lot of it was on my own. I went back and	18 Q. And did you compile the reliance list
19 reviewed the company documents, did a lot of thinking, a	19 yourself?
20 lot of pondering, did a lot of -- went back and looked at	20 A. No, I didn't type this up.
21 some of the previous depositions, experts and plaintiffs on	21 Q. And did you have any -- did you offer any
22 both sides. Wrote the general report.	22 assistance with the supplemental list?
23 Q. Okay. I know that's a lot. That's a very	23 A. Yes. I didn't type it up, but, again, I
24 broad question.	24 did want to make sure I had everything in there.
25 How much time did you spend, would you	25 Q. And I think you've mentioned that you read

Page 14	Page 16
<p>1 some depositions and maybe you said -- maybe I may be 2 misstating, but did you also review the expert reports in 3 this case by other experts?</p> <p>4 A. Yes.</p> <p>5 Q. Do you recall which expert reports you 6 read?</p> <p>7 A. I remember Rosenzweig I think. Is that 8 one of the guys? That sounds familiar. Sepulveda maybe. 9 Honestly, I can't remember the names of the others. I'm 10 sorry.</p> <p>11 Q. That's okay. Did you rely in any way on 12 the information you read in these reports?</p> <p>13 A. Did I rely on it?</p> <p>14 Q. Yes, sir, or any of them. Were there any 15 reports that you read that you relied on in drafting your 16 own report?</p> <p>17 A. Well, I relied on everything I read, and 18 that was part of it. And it helps in a way that -- you 19 know, you want to take an objective view of this as best 20 you can, and so one way you can do that is by seeing both 21 sides of the story. And so, yes, it's all part of my 22 mental formulation of things.</p> <p>23 Q. Let's jump over to your background with 24 the sling usage, and you've already told me that you 25 learned about the TTV product when you were in residency --</p>	<p>1 a lot of problems with it. And I felt like that I could 2 have less -- I feel like by doing the TTV-O I could really 3 treat most of my patients satisfactorily with that.</p> <p>4 Q. How many TTV retropubic devices would you 5 estimate that you've implanted in your --</p> <p>6 A. Retropubic?</p> <p>7 Q. Yes.</p> <p>8 A. Less than 20.</p> <p>9 Q. And maybe -- I think it is in your report, 10 but can you tell me approximately how many TTV-O devices 11 you've implanted?</p> <p>12 A. Around 200, I would suspect.</p> <p>13 Q. Other than the TTV-R and the TTV-O, were 14 you trained on any other devices?</p> <p>15 A. Yes. Monarc, SPARC. I can't remember all 16 the names of them, but through residency, as far as, you 17 know, devices, we did pubovaginal slings, Burches, the 18 whole gamut of things, but I can't remember all the names 19 of them. They all had specific names, but I can't remember 20 all the names of all the different products. But the guys 21 I trained with were very open -- because that was kind of 22 the beginning of all these slings, is they really wanted to 23 see the difference in the different material, the different 24 slings, the different placement. So, yeah, I got a good 25 experience in residency with those.</p>
<p style="text-align: center;">Page 15</p> <p>1 A. Yes, ma'am.</p> <p>2 Q. -- back in approximately 2005, did you 3 say? 2002?</p> <p>4 A. 2002. Yeah, that would be about right.</p> <p>5 Q. Did you begin immediately implanting 6 devices after your initial training?</p> <p>7 A. Yes.</p> <p>8 Q. Did you continue to use the TTV device as 9 your primary device that you implanted?</p> <p>10 A. No. TTV obturator.</p> <p>11 Q. And so if I understand, you were trained 12 on the TTV-R. Were you at some point also trained on the 13 TTV-O?</p> <p>14 A. Yes.</p> <p>15 Q. And when was that approximately?</p> <p>16 A. 2004, 2005.</p> <p>17 Q. And after being trained on both of the 18 products, you chose to continue to implant the TTV-O; is 19 that correct?</p> <p>20 A. Yes, ma'am.</p> <p>21 Q. And what were your reasons for wanting to 22 use the O versus the retropubic?</p> <p>23 A. I feel like it was -- I was getting good 24 results. I felt like it was something that was pretty 25 straightforward as far as placement of it. I wasn't seeing</p>	<p style="text-align: center;">Page 17</p> <p>1 Q. After you learned to use each of these 2 other devices you mentioned, did you also use any of those 3 devices in your procedures treating your patients?</p> <p>4 A. I'm sorry. Say that again.</p> <p>5 Q. I want to find out if you ever implanted 6 any of these other devices into patients you were treating.</p> <p>7 A. Out of residency? Like in practice or in 8 residency?</p> <p>9 Q. Just in general. At this point I'm just 10 wanting to see how many different devices that you've 11 implanted in --</p> <p>12 A. Honestly, I don't know that I can give you 13 a number because there was just a small sample size of each 14 one, and so I don't really know. The majority of what we 15 did, after a period of time, was either retropubic or TTV-O 16 in residency.</p> <p>17 Q. Is it fair to say that of those other 18 devices, you learned enough to decide whether or not you 19 wanted to use them and went with something that you were 20 more comfortable with?</p> <p>21 A. Yeah. I mean, for better or worse, I 22 mean, that's -- you have to make a decision, right?</p> <p>23 Q. Right.</p> <p>24 A. And so that was the one that I felt the 25 most comfortable with.</p>

Page 18	Page 20
<p>1 Q. Do you recall any of the other qualities 2 of those devices that may or may not have been as appealing 3 to you as a surgeon performing these procedures?</p> <p>4 MR. WALKER: Object to form.</p> <p>5 A. I mean, the only one that I felt -- no, 6 there was nothing uncomfortable. There was nothing really, 7 like I say, that didn't jibe with my skill set. It was 8 really just needing to pick something I felt comfortable 9 with, had some durability, had some long-term results, 10 there were some studies on. And so that's what eventually 11 led to my decision to continue to pursue that.</p> <p>12 Q. Do you still continue to implant the TTV-T-O 13 device today in your practice?</p> <p>14 A. No.</p> <p>15 Q. What device do you implant today?</p> <p>16 A. Altis slings.</p> <p>17 Q. I'm sorry?</p> <p>18 A. Altis by Coloplast.</p> <p>19 Q. Do you recall when you switched to the 20 Altis device?</p> <p>21 A. After Secur got off the market.</p> <p>22 Q. Approximately when did you begin 23 implanting the TTV-Secur device?</p> <p>24 A. When it came on the market. Well, let's 25 see. It was going to be probably around 2007 when I</p>	<p>1 long do you generally follow up with your patients?</p> <p>2 A. Usually see them at six weeks and then the 3 majority of them I see in six months, a year, oftentimes, 4 you know, many years afterwards. It seems to me that if 5 the patient is doing well, they'll miss their appointments, 6 but we try to get them back in to see how they are doing.</p> <p>7 Q. What's the longest you've followed a 8 patient that you've implanted a sling device in?</p> <p>9 A. What's the longest?</p> <p>10 Q. Yes.</p> <p>11 A. Oh, I had a patient the other day I 12 implanted in 2005, right when I got in residency. So it's 13 been however many years now, 12 years.</p> <p>14 Q. Are you still treating her for her sling?</p> <p>15 A. No, I'm not treating her for that. The 16 reason I saw her specifically was because she also has 17 kidney stones.</p> <p>18 Q. Is it also the situation that some 19 patients switch doctors after their initial implant 20 procedures? Is that something that happens frequently in 21 this?</p> <p>22 MR. WALKER: Object to form.</p> <p>23 A. It may. You know, I'm sure that happens 24 for a lot of different reasons, moves or whatever. It may. 25 I'm not aware of how many or how often it happens, but I</p>
Page 19	Page 21
<p>1 started implanting that.</p> <p>2 Q. And when you were trained on the Secur 3 device, were you trained in your residency or was this 4 something --</p> <p>5 A. It wasn't done in residency. It was 6 trained by a proctor.</p> <p>7 Q. So someone with Ethicon?</p> <p>8 A. Yes.</p> <p>9 Q. Do you recall who your proctor was?</p> <p>10 A. Yes.</p> <p>11 Q. Who was your proctor?</p> <p>12 A. Dr. Christopher Ramsey.</p> <p>13 Q. How long did you train on the TTV device 14 before you began implanting?</p> <p>15 MR. WALKER: Object to form. Which TTV 16 device?</p> <p>17 BY MS. BAGGETT:</p> <p>18 Q. Other than Secur. I'm sorry.</p> <p>19 A. How long did I train? I don't recall 20 exactly. I do remember there was kind of a step-wise 21 approach I went through. I mean, I observed him putting in 22 some, watched a video, read material, was then proctored 23 on, I would say, somewhere around five cases of my own 24 until the proctor felt like I had the technique down.</p> <p>25 Q. And when you implant a mesh device, how</p>	<p>1 know I see other -- you know, some other colleagues' 2 patients later, for whatever reason, so I'm sure it 3 happens.</p> <p>4 Q. And that was my next question. Do you 5 treat complications that arise with patients that were 6 implanted by other doctors?</p> <p>7 MR. WALKER: Object to form.</p> <p>8 A. Well, here's how I would answer that 9 really more specifically. The way that my practice is now 10 is I'm kind of known within the community to help with more 11 complicated incontinence issues, neurogenic type of bladder 12 problems, incontinence of different types. So I see a wide 13 variety of patients for all different reasons of 14 incontinence. It may not necessarily be stress. It could 15 be urge incontinence.</p> <p>16 Unique to Knoxville, though, I will say 17 is -- well, is that the gynecologists tend to not do any of 18 the sling procedures. They end up sending them to the 19 urologist. And so that's kind of a unique setup that we 20 have here.</p> <p>21 Q. So do you treat mesh-related complications 22 in your practice today?</p> <p>23 MR. WALKER: Object to form.</p> <p>24 A. If a patient has had a sling placed and 25 they feel like they are having some issues with their bowel</p>

<p style="text-align: right;">Page 22</p> <p>1 or bladder or incontinence, whatever, then I'll see them, 2 just like I would see any patient.</p> <p>3 Q. Do you ever refer them to another doctor 4 to treat their complications related to mesh products?</p> <p>5 MR. WALKER: Object to form.</p> <p>6 A. You're assuming I'm having a lot of 7 complications here.</p> <p>8 Q. I'm saying if someone comes into your 9 office that was implanted by another doctor, would you 10 refer them on or would you treat them?</p> <p>11 A. That's a good question. I mean, 12 complications arise for -- well, you know, problems with 13 any surgery, whether it be incontinence surgery, whether it 14 be Interstim, whatever.</p> <p>15 If I'm getting to a point where I feel 16 like we're not making progress, then I'm not going to beat 17 my head against the wall and I'm going to try to get 18 another set of eyes to then see this patient. So the 19 bottom line is, if we're not making progress with the 20 patient, I want the patient to get better. So whatever 21 that takes to get better, you know, we'll make that happen. 22 It doesn't happen very often. And in all honesty, I just 23 don't see a lot of my patients back that are having 24 problems after putting these in.</p> <p>25 Q. Have you, on any occasion, treated a</p>	<p style="text-align: right;">Page 24</p> <p>1 treated with regards to your patients following their 2 implant surgeries?</p> <p>3 A. Well, I mean, after -- sometimes some of 4 the incontinence returns. You know, of course, there's the 5 rate of urge incontinence that occurs in some of these 6 patients. I've had probably just a handful of patients who 7 have had an extrusion. I'm trying to think of any others. 8 I've had a few patients with a TVT-O that initially 9 complained of some groin pain and then that eventually 10 resolved.</p> <p>11 Q. By "resolved," you're basing that on the 12 fact that they didn't come back in for follow-up treatment?</p> <p>13 A. No. No. Those patients, if they were 14 having some discomfort initially, I made sure to get them 15 back regularly. And I can honestly remember only just a 16 handful of patients who had that, and made sure all of them 17 resolved. So I can't remember only one case where I felt 18 like there was a long-term problem.</p> <p>19 Q. How many patients that were originally 20 implanted by another physician have you seen and attempted 21 to treat?</p> <p>22 MR. WALKER: Object to form.</p> <p>23 A. That's hard for me to -- I don't know. I 24 would say -- I don't know that I can give you a specific 25 number. Gosh, I don't know.</p>
<p style="text-align: right;">Page 23</p> <p>1 patient that you have implanted one of these sling devices 2 in -- let me start that over.</p> <p>3 If you can tell me, how many patients that 4 you've implanted a sling in have come back to you with 5 problems that you treated them for?</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. What kind of problems are you describing?</p> <p>8 Q. Anything that potentially might be related 9 or that they believe might be related to their sling.</p> <p>10 A. Well, I've seen patients after -- can you 11 rephrase your question?</p> <p>12 Q. Sure.</p> <p>13 A. I guess what I'm having a hard time with 14 is you're implying that it's an issue with the mesh, and I 15 really don't feel like it's the mesh itself that's the 16 issue a lot of times. But every time you do surgery on a 17 patient, whether it be with a sling or, like I said, 18 Interstim, or any other reason that the patient may have 19 some problems with their surgery, I see them back to help 20 them get through their issues.</p> <p>21 So as far as the mesh itself, I don't know 22 if I can answer that, but I would say after, you know, 23 pelvic surgery and it's something that they feel like is 24 going on, I mean, I don't know, a handful of times.</p> <p>25 Q. What type of complaints have you seen or</p>	<p style="text-align: right;">Page 25</p> <p>1 Q. Is it greater than ten?</p> <p>2 A. Yeah, it's probably around 10 to 15, 3 somewhere around there.</p> <p>4 Q. What type of complications, if you can 5 recall, have you seen that have been --</p> <p>6 A. Usually what I get --</p> <p>7 MR. WALKER: You've got to let her finish 8 the question.</p> <p>9 THE WITNESS: I'm sorry.</p> <p>10 MS. BAGGETT: It's hard for all of us to 11 do because it's like we want to have a 12 conversation.</p> <p>13 BY MS. BAGGETT:</p> <p>14 Q. So my question is how many -- or what 15 types of complications have you seen in patients that were 16 originally implanted by another doctor and treated them 17 for?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 A. Okay. So you're asking me how many -- 20 what type of problems these patients have had?</p> <p>21 Q. Yes, sir.</p> <p>22 A. Okay. Well, like I was saying before, the 23 majority of my practice is incontinence work. And so if 24 another doctor has implanted them and they've had 25 recurrence of their incontinence, that's usually what I'll</p>

Page 26	Page 28
<p>1 see the referral for, and then trying to determine if it's 2 a recurrence of the stress incontinence or if it's an issue 3 with urge incontinence. So that's a lot of what I do. 4 Q. Have you ever treated anything more 5 serious than just a recurrence that occurred with a patient 6 that you did not implant? 7 MR. WALKER: Object to form. 8 A. Yes. 9 Q. What type of problems? 10 A. She had -- one patient, and I don't recall 11 the -- I do not recall the actual device that was 12 implanted, but I do remember one patient having a small 13 extrusion. 14 Q. And do you keep track of all of the cases 15 you do somewhere in your practice? The products that you 16 implant, is there some system that you maintain that keeps 17 track of the implant devices you implanted? 18 A. No, ma'am. 19 Q. So the same would be true for any 20 conditions that you treat as a result of having had that 21 implant implanted? You don't keep track of that either. 22 That's what I'm trying to find out. 23 A. I'm not following your question. I'm 24 sorry. 25 Q. Do you also track any of the adverse</p>	<p>1 the most part, mechanically cut. 2 Q. Do you recognize any differences between 3 the meshes, the two types of meshes, when you look at them 4 or feel them? 5 A. I don't notice any differences when I feel 6 them. The only difference you can see is when the laser 7 has come across the edge, there may be more of a 8 heat-sealed type of look on the side of it. But there's 9 no -- other than that, they feel the same, they look the 10 same, yeah. It's not something in residency or in training 11 that has been brought up. But, yeah, I know now. 12 Q. Are you familiar with the differences in 13 the type of adverse reactions that are associated between 14 the two types of devices? 15 MR. WALKER: Object to form. 16 A. No. Honestly, I haven't seen anything 17 like that in the literature. It appears to me that the 18 adverse events are about the same. 19 Q. Have you ever witnessed in your practice 20 with the meshes that you have implanted that were 21 mechanically cut -- have you ever witnessed any particle 22 loss on those products before you implanted them? 23 A. Not that I'm aware of. 24 Q. Were you aware that the mechanically-cut 25 meshes could lose particles or fray?</p>
Page 27	Page 29
<p>1 events that you may have treated? 2 A. Well, I'm not in an academic setting so I 3 really don't have a need -- or it's not the need, but I 4 don't have -- I'm not doing studies on my patients, so I 5 don't have a registry. 6 Q. That was going to be my next question 7 actually. Have you been involved with any studies or 8 registries with regards to the sling? 9 A. No. 10 Q. Doctor, do you also implant POP devices? 11 A. No. 12 Q. Doctor, are you familiar with the 13 difference between mechanically-cut versus laser-cut 14 meshes? 15 A. I am. 16 Q. Tell me what your understanding is of the 17 difference between those two devices. 18 A. Well, one is actually physically cut with 19 some type of shears or some type of device, and the other 20 one is cut on the side with a laser to give you the device 21 shape. I don't know anything more than that, though, how 22 they do it. 23 Q. And have you implanted both types of mesh? 24 A. I assume I have. I know I have. I know I 25 have because TVT-Secur is laser cut and the TVT-O is, for</p>	<p>1 A. I'm aware of that. 2 MR. WALKER: Object to form. 3 Q. And did that have any bearing on the types 4 of products that you continued to use or chose to use? 5 A. No. What I would say to that is, you 6 know, I base my decisions on the literature and outcomes 7 and adverse events, and there's really nothing that would 8 suggest that particle loss is an issue. 9 Q. Do you know if the particle loss has been 10 studied in any of the literature that you have reviewed? 11 A. I'm not aware of any literature looking at 12 specifically the particle loss in the patients. 13 Q. Have you done any research to see if there 14 have been any studies regarding particle loss in the mesh 15 that's used? 16 A. I haven't done a PubMed research for 17 particle loss for slings, but I've read thousands of 18 articles, and not one has ever discussed particle loss. So 19 that in itself is a new concept. 20 Q. Have you also in preparing for your 21 deposition today had the opportunity to review any Ethicon 22 internal documents? 23 A. I have. 24 Q. Have you read any documents through that 25 review that discuss particle loss in any way?</p>

Page 30	Page 32
1 A. Yes.	1 specifically, in the guidelines from the different
2 Q. What types of information was contained in	2 professional societies, there's -- I believe there's
3 the documents that you reviewed with regard to particle	3 discussion about being an inert mesh.
4 loss?	4 Q. Did you also review internal Ethicon
5 A. The only article -- or the only documents	5 documents that discussed the fact that the prolene mesh
6 I remember seeing was based on internal documents in	6 does suffer some form of degradation and may not be inert?
7 Ethicon; communications from one engineer to the next, or I	7 MR. WALKER: Object to form.
8 don't know. I can't keep their titles straight, but I	8 A. What I saw and what I remember reading --
9 don't know if it was marketing, advertising. I know there	9 and, again, I don't have the specific name and information,
10 was an engineer involved.	10 but what I remember is that there was some controversy
11 Q. Do you know whether or not there were any	11 about that and it was felt to be -- the comment that you
12 discussions in the documents that you read with regard to	12 just made was then subsequently found to be not accurate.
13 performing a study on the effect of this particle loss in	13 Q. I'm not going to mark this because I
14 the patients?	14 didn't bring copies, but I'm going to show you a document
15 A. I don't recall that.	15 and you can look at it as well. It's a document labeled
16 Q. Do you know if the documents that you read	16 ETH.MESH 12831407. And this is a document that was
17 suggested that there may be a need to study this phenomenon	17 provided to us by Ethicon in discovery of this case with
18 in order to protect the safety of the patients that were	18 regards to prolene explant study meeting minutes that took
19 implanted with the device?	19 place October 8 of 1987. If you want to read over that for
20 MR. WALKER: Object to form.	20 a second.
21 A. I'm sorry. Repeat that.	21 A. 1987?
22 MS. BAGGETT: Can you read that back?	22 Q. Yes.
23 (Thereupon the question was read back by	23 MR. WALKER: Let me know when you're ready
24 the court reporter.)	24 for the question.
25 THE WITNESS: That question is supposing	25 MS. BAGGETT: And if you'll let me see it
Page 31	Page 33
1 that there's a problem with particle loss causing	1 when you're done. I'm not going to ask you to
2 safety, and I disagree with that. But to answer	2 remember anything you read on it, but just in
3 the other part of your question is I think there	3 general ask you some questions when you're done.
4 were some general discussions about it, but I	4 THE WITNESS: Here you go.
5 don't recall specifically trying to get a study	5 BY MS. BAGGETT:
6 involved, and I don't know that there's really a	6 Q. And after reviewing that document, would
7 good need to have a study involved for that.	7 it appear to you that Ethicon was aware, at least as early
8 Clinically, there's really no -- you know,	8 as 1987, of the potential for their prolene sutures
9 clinically, this idea about particle loss is a	9 material to degrade?
10 moot point. There's no -- prolene mesh is inert,	10 MR. WALKER: Object to form.
11 for the most part. And any little suture bits	11 A. The way I'll answer that is prolene has
12 that have been cut in the past, you know, those	12 been around for 50 years, has been used in multiple
13 happen to have -- those happen all the time. When	13 different settings, transplant surgery, cardiovascular
14 you cut the suture, you're going to have some	14 surgery, and it continues to be used. It's still on the
15 particle loss. And those particle losses have	15 market. And so whether there's some findings of changes in
16 never been documented or shown in any studies to	16 the mesh or not or on the prolene suture or not, you know,
17 be of any consequence clinically.	17 clinically, it really has no -- there's really nothing that
18 BY MS. BAGGETT:	18 I can -- from a clinical standpoint, there's no adverse
19 Q. And you had mentioned just in your	19 events that we've been able to determine.
20 response something about polypropylene being inert. What	20 Q. When you were being trained on devices
21 do you base that on?	21 manufactured by Ethicon, you understood that those devices
22 A. Well, reviewing some of the records, I do	22 all contained the same type of polypropylene; the TVT, the
23 recall some conversations back and forth about the	23 TTVT obturator and TTVT-S devices all contained the same type
24 properties of the mesh, and one of them -- well, that was	24 of mesh, which was the prolene mesh, correct?
25 tossed back and forth in some of these documents, but more	25 A. Yes.

Page 34	Page 36
<p>1 Q. And you knew that those were made from the 2 same material that the sutures were made from. Is that 3 accurate?</p> <p>4 A. Yes.</p> <p>5 Q. And were you aware back at that time of 6 the potential for the sutures to become degraded?</p> <p>7 MR. WALKER: Object to form.</p> <p>8 A. I disagree with that. I would have to 9 think that something that would be used as a suture for 10 vessels would have to be proven to be non-degradable. And 11 so based on that and the fact that I've seen the mesh after 12 it's been removed and there's no visible change in the 13 mesh, I really can't agree with the initial premise of your 14 question.</p> <p>15 Q. I think my question was just simply did 16 you know that the polypropylene had a tendency to degrade 17 after implantation back when you were being trained on the 18 devices.</p> <p>19 MR. WALKER: Object to form.</p> <p>20 A. Well, are you basing it on that one 21 article?</p> <p>22 Q. Well, I'm just asking --</p> <p>23 A. Because from a clinical standpoint, we 24 would assume all surgeons are trained to look at prolene 25 suture as a non-degradable suture. So that is the premise</p>	<p>1 ETH.MESH.05447475, and this is an e-mail discussion with 2 regards to, "Subject Line: How inert is polypropylene?" 3 And take a second to...</p> <p>4 MR. WALKER: You don't want to mark these 5 as exhibits?</p> <p>6 MS. BAGGETT: No, only because I didn't 7 bring enough. I intended to get them copied, but 8 I didn't. I ran out of time.</p> <p>9 If I can see that back when you're done.</p> <p>10 Thank you.</p> <p>11 BY MS. BAGGETT:</p> <p>12 Q. And this document, as I said, was dated in 13 2007, so would you agree that at least as of 2007, Ethicon 14 was still discussing the fact that there were changes in 15 the surface of the mesh fibers and a question of -- that 16 had been raised with regards to the inertness of the 17 polypropylene?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 A. I don't see anything in there about 20 inertness. I think they are talking about tensile strength 21 and ways to help prevent suture breakage.</p> <p>22 Q. I'm going to hand you one more document on 23 this subject. It's ETH.MESH.05447481, and it's dated 24 July 6, 2007. It's also an e-mail chain.</p> <p>25 A. Okay.</p>
<p style="text-align: center;">Page 35</p> <p>1 that I came into this with and continue to use, not that -- 2 well, I'll just stop with that.</p> <p>3 Q. When was the first time you had heard of 4 the potential of degradation with regard to polypropylene?</p> <p>5 A. Not until late last year.</p> <p>6 Q. When you began preparing for your report?</p> <p>7 A. Yes, ma'am.</p> <p>8 Q. I'm going to show you a document that's 9 marked ETH.MESH.00004755, and I'll represent to you that 10 this was another document that was produced in the 11 discovery of this case. And this document is also dated in 12 1988, and it just has some notes with regard to some 13 explants, and I just want you to look at it and then I'll 14 briefly ask you a question.</p> <p>15 A. Okay. You can ask me.</p> <p>16 Q. Sure. What does this appear to be to you?</p> <p>17 A. These are -- these are explants of 18 something and it describes whether there's cracking or not 19 cracking. I don't -- these are explanted something or 20 other. I don't know exactly what these are.</p> <p>21 Do you know what those are?</p> <p>22 Q. Well, I don't want to misrepresent 23 anything on the record, but my understanding was 24 polypropylene material that had been explanted.</p> <p>25 The next document I'm going to hand you is</p>	<p style="text-align: center;">Page 37</p> <p>1 Q. And my question is, continuing into 2007, 2 they were still discussing the degradation of the 3 polypropylene, and at this point they are actually 4 discussing a new polymer that they may consider in future 5 applications that doesn't have that same propensity. Did 6 you read --</p> <p>7 A. Can I see that one more time?</p> <p>8 Q. Sure.</p> <p>9 A. Thank you.</p> <p>10 MR. WALKER: Object to form.</p> <p>11 Q. Could you just tell me what the product is 12 they are referencing in this document that you're reading?</p> <p>13 A. Which product are you talking about?</p> <p>14 Q. Well, I mean --</p> <p>15 A. The new product or the older product?</p> <p>16 Q. The new product that they are referencing 17 potential --</p> <p>18 A. They're describing something called a 19 Pronova suture.</p> <p>20 Q. By reading the document, does it sound 21 like it suffers from the same potential to degrade as the 22 original prolene suture?</p> <p>23 MR. WALKER: Object to form.</p> <p>24 A. Ma'am, I can't say much about it other 25 than this e-mail, the way this e-mail describes it.</p>

Page 38	Page 40
<p>1 There's no data on it. It's just a discussion between two 2 colleagues.</p> <p>3 Q. But in the discussion that you read, does 4 it discuss the characteristics of this new product and do 5 they different from the prolene suture?</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. Yes.</p> <p>8 Q. You also mentioned earlier that some of 9 the information where you learned about the inert qualities 10 of polypropylene were through some of the societies that 11 are involved in treatment of stress urinary incontinence 12 and other urological disorders.</p> <p>13 Is that what I understood you to say?</p> <p>14 A. Well, yeah. I mean, I guess my point of 15 saying that is that a large group to -- a large group of 16 physicians to get together and discuss things and to come 17 out with a consensus statement would have to include all 18 these factors. And if they felt that a product wasn't safe 19 or reliable -- and inertness being part of that, I suppose, 20 although from a clinical standpoint, it's really not 21 something we consider and it really has not been shown in 22 any studies to show any value. But if those large group 23 societies endorse the product, us as physicians would have 24 to use that as our beacon to know that that's a safe and 25 effective product that's endorsed by many physicians at the</p>	<p>1 reliance on the materials or the information that you are 2 provided from these societies?</p> <p>3 A. No. No, because for every physician that 4 may be -- you know, there's a counterbalance there and 5 these are not made by -- these guidelines aren't made by 6 one individual. They're made by a group. And so it's a 7 consensus statement. It's not an individual statement.</p> <p>8 Q. Would you agree that if a device 9 manufacturer were to try to affect the information that was 10 being presented through these societies in some way that 11 was misleading, that that would be unethical?</p> <p>12 MR. WALKER: Object to form.</p> <p>13 A. Can you break down that question, because 14 it seems like there's two parts to it?</p> <p>15 Q. Sure. Would you agree that it would be 16 unethical for a company, a device manufacturing company, to 17 use their influence with a society to misrepresent 18 information about their product to the medical community 19 and the public at large?</p> <p>20 MR. WALKER: Object to form.</p> <p>21 A. Ma'am, that seems to me a little bit 22 insulting to physicians to think that we would let a device 23 company make decisions for us. And I'm not trying to be 24 ugly about it, but to me that would -- you know, as a 25 physician, you know, we're not beholden to any company.</p>
<p style="text-align: center;">Page 39</p> <p>1 academic level that look at all these things.</p> <p>2 Q. So is it fair to say that you as a 3 physician rely heavily on the information provided to you 4 through these societies?</p> <p>5 A. I think that it's, you know, part of our 6 decision-making process, and it certainly helps when one of 7 these large groups is either advocating or in some 8 situations they may not advocate a certain way of doing 9 things. And to listen to that I think is part of our duty 10 as urologists, to listen to the American Urological 11 Association guidelines.</p> <p>12 Q. Are you aware of the fact that some of the 13 members of these societies are also employees of the device 14 manufacturers?</p> <p>15 MR. WALKER: Object to form.</p> <p>16 A. I have no way of knowing that, ma'am.</p> <p>17 Q. Would that --</p> <p>18 A. Does it surprise -- I'm sorry. I 19 interrupted you.</p> <p>20 Q. No, I didn't let you finish. Go ahead.</p> <p>21 A. I would assume that these physicians are 22 probably consultants of many, many different companies. 23 And so it wouldn't surprise me at all if they were 24 consultants for Johnson & Johnson or Ethicon.</p> <p>25 Q. Would that have any bearing on your</p>	<p style="text-align: center;">Page 41</p> <p>1 And so, honestly, that's not part of my thought process.</p> <p>2 So I can't really answer that question the way you have it 3 stated.</p> <p>4 Q. I want to show you what's marked as 5 ETH.MESH.10216874, and this is an e-mail chain dated 6 August 2000, and it's with regards -- the subject line is 7 AUGS Lecture/Content of Discussion, and I want to ask if 8 you would just look at this for a second.</p> <p>9 A. Okay.</p> <p>10 Q. After reviewing this document, Doctor, 11 does it appear that, at least based on what you read in 12 this memo, that Ethicon has had conversations or meetings 13 that were centered around having doctors represent -- let 14 me start that over. That's getting too long.</p> <p>15 What was your impression from reading this 16 memo?</p> <p>17 A. I need to look at one more thing before I 18 can answer that question.</p> <p>19 What's my impression from reading that 20 memo?</p> <p>21 Q. Yes, sir.</p> <p>22 A. It sounds like a typical marketing person 23 and any company trying to be encouraging of their product.</p> <p>24 Q. Do you agreed that in marketing that a 25 company is ethically bound to present truthful and complete</p>

<p style="text-align: right;">Page 42</p> <p>1 information when they are discussing the products that they 2 are selling?</p> <p>3 MR. WALKER: Object to form.</p> <p>4 BY MS. BAGGETT:</p> <p>5 Q. Let me put it this way. Have you ever 6 heard of a term called "fair and balanced"?</p> <p>7 A. Yes.</p> <p>8 Q. And do you agree that information that is 9 provided by a company with regards to the products that 10 they sell should contain fair and balanced information on 11 both the risks and the benefits of that product?</p> <p>12 MR. WALKER: Object to form.</p> <p>13 A. To some extent. I mean, I wouldn't 14 expect -- let me give you an example. I wouldn't expect a 15 marketing person or a salesman for a company that sells 16 me -- or wants to provide samples for, let's just say an 17 overactive bladder drug, to give me all the benefits of 18 their competitor, right? So from a physician standpoint, I 19 know where this is coming from, I know everybody's -- but 20 in reality what happens is I take that information and then 21 I compile it with all the other information that's out 22 there to come to our decision.</p> <p>23 So does it surprise me? No, not really. 24 That's their job as a marketing person. But does it 25 influence the physicians? Not me. It shouldn't. I mean,</p>	<p style="text-align: right;">Page 44</p> <p>1 talking about societies, such as AUGS. And what are some 2 other societies that you're familiar with with regards to 3 this field of practice?</p> <p>4 A. Well, American Urologic Association, 5 Society for Urodynamics in Female -- I don't remember the 6 acronym. SUFU or -- let me look through here. There's one 7 for the American -- what is it -- Urogynecologists Society. 8 I'm not very good with acronyms. I'm sorry.</p> <p>9 Q. Me neither. That's all right. That's 10 plenty.</p> <p>11 SUFU is one you mentioned, and are you 12 familiar with the position statement that was jointly put 13 out between AUGS and SUFU?</p> <p>14 A. I remember reading it, but can you give me 15 a second to review it?</p> <p>16 Q. Well, if you want to, in a second you can. 17 I want to show you some different documents, and this may 18 remind you what it's about. But if you need to, you can 19 certainly take time before you answer any questions.</p> <p>20 I'm going to hand you what's been marked 21 as MIL00282, and this is an AUGS/SUFU MUS task force 22 agenda. And this, I'll represent to you, was provided to 23 us in the production of documents obtained in this 24 litigation. You don't have to necessarily focus on the 25 highlighting. That was for me.</p>
<p style="text-align: right;">Page 43</p> <p>1 we're not relying on their information to make decisions. 2 We're relying on the clinical data that's out there.</p> <p>3 Q. And do you -- with every study that you 4 come across in your field, your area of expertise, do you 5 not only read the study, but do you try to look at the 6 underlying data that's involved with that study to 7 determine whether or not you feel it's an adequate study?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. Are you asking me if I always do?</p> <p>10 Q. Yes, sir.</p> <p>11 A. I try to. I don't know that I always do. 12 But it's part of the whole -- you know, as a physician, 13 that's part of the whole process. I mean, we don't live in 14 a vacuum. So the research that we did in residency, all 15 the studies that we did beforehand, all the books that we 16 read, I mean all that stuff gets assimilated and then this 17 is part of that assimilation, right?</p> <p>18 MR. WALKER: Renee, when you hit a 19 stopping point, could we take five minutes?</p> <p>20 MS. BAGGETT: Sure. Let's go ahead and do 21 that now.</p> <p>22 (Thereupon a break was taken 9:33 a.m. to 23 9:37 a.m.)</p> <p>24 BY MS. BAGGETT:</p> <p>25 Q. Doctor, before we took a break, we were</p>	<p style="text-align: right;">Page 45</p> <p>1 A. Okay.</p> <p>2 Q. And I'm going to hand you now what was 3 marked as MIL00268.</p> <p>4 MR. WALKER: Rebecca, this is a seven-page 5 document?</p> <p>6 MS. BAGGETT: Yes, I believe it is.</p> <p>7 BY MS. BAGGETT:</p> <p>8 Q. Did you have a chance to look at it the 9 way --</p> <p>10 A. Well, I mean, I can sit here and spend 11 some time reading these things, if you want me to.</p> <p>12 Q. That's not my purpose. I wanted --</p> <p>13 A. Was I --</p> <p>14 MR. WALKER: Just wait for the question.</p> <p>15 Q. Do you have an opinion of -- or do you 16 understand what the documents were that I gave to you?</p> <p>17 A. I didn't have time enough to look at the 18 second document.</p> <p>19 Q. That's fine.</p> <p>20 A. The first document was some meeting agenda 21 notes.</p> <p>22 Q. And it was with regards to the position 23 statement?</p> <p>24 A. Yes.</p> <p>25 Q. And the second document I handed you --</p>

Page 46	Page 48
<p>1 and I'll let you look at it again if you want to -- it</p> <p>2 appears to be a draft of that position statement with some</p> <p>3 comments in the margin with regards to editing notes.</p> <p>4 Would you agree with that?</p> <p>5 MR. WALKER: Object to form.</p> <p>6 A. I agree. Did I have this beforehand?</p> <p>7 Q. I doubt it. And I'm not going to ask you</p> <p>8 about the content. But as least as far as the two</p> <p>9 documents that I just handed you, does it appear that there</p> <p>10 was some input by Ethicon with regards to the drafting of</p> <p>11 that position statement?</p> <p>12 MR. WALKER: Object to form.</p> <p>13 A. Ma'am, I can't make heads or tails of this</p> <p>14 in the short amount of time that you've given this to me,</p> <p>15 so I really can't comment.</p> <p>16 Q. Sure. But as far as what this appears to</p> <p>17 be on its surface, what does this appear to you to be?</p> <p>18 A. I don't know, because I don't know who</p> <p>19 wrote this. I don't know who's making the comments. I</p> <p>20 mean, I don't -- I haven't had enough time to really dig my</p> <p>21 teeth into it.</p> <p>22 Q. That's all right. I'm not going to ask</p> <p>23 you to criticize it. My question then, based on your</p> <p>24 review of these materials, would it bother you to know that</p> <p>25 a device manufacturer was having input over the position</p>	<p>1 drift there. Can you explain that again?</p> <p>2 Q. Sure. I'm going to hand you what's been</p> <p>3 marked as ETH.MESH.06828907, and it's another e-mail chain.</p> <p>4 A. Okay.</p> <p>5 Q. And in this document that I passed to you,</p> <p>6 that's an e-mail chain discussion between internal</p> <p>7 employees at Ethicon with regards to a safety aspect of --</p> <p>8 I lost where the device is that was being discussed. At</p> <p>9 least with regards to this information, it's discussing one</p> <p>10 of the adverse events that Ethicon learned of, and the</p> <p>11 discussion was to not include that information in this</p> <p>12 submission and spin the safety aspect rather than talk</p> <p>13 about the complications. Is that your --</p> <p>14 A. Do you mind me looking at it?</p> <p>15 Q. Sure.</p> <p>16 MR. WALKER: Object to form.</p> <p>17 A. Well, I don't know if this is related to a</p> <p>18 sling or which sling or if it's related to pelvic organ</p> <p>19 prolapse. I don't have an idea. So it's really</p> <p>20 incomplete. So because of that, I don't really have a</p> <p>21 whole lot of way to answer it, although I will say that</p> <p>22 internal communications between Ethicon are just that, and</p> <p>23 still don't -- you can't hide -- you know, their</p> <p>24 conversations between each other are their own</p> <p>25 conversations. That has no bearing on the data that's out</p>
<p style="text-align: center;">Page 47</p> <p>1 statements or the guidelines that were being circulated to</p> <p>2 physicians in the community about the devices that they</p> <p>3 were selling?</p> <p>4 MR. WALKER: Object to form.</p> <p>5 A. No, it would not bother me, and I'll</p> <p>6 explain why. Because when a physician is doing a procedure</p> <p>7 with a certain device and that device is getting good</p> <p>8 results and they feel like it's an adequate treatment, for</p> <p>9 them to feel like there's an issue with it. A lot of times</p> <p>10 there just needs to be more information. There needs to be</p> <p>11 support from the other physicians who you trained with, who</p> <p>12 your colleagues are. So there needs to be some rallying</p> <p>13 point.</p> <p>14 Irregardless, just like I mentioned</p> <p>15 before, it still comes down to the body of work in the</p> <p>16 medical literature to come up with those guidelines,</p> <p>17 though. It doesn't bother me at all.</p> <p>18 Q. Would it bother you to learn that any</p> <p>19 information that was being shared with the medical</p> <p>20 community through these position statements, that the</p> <p>21 information being shared was being misrepresented or</p> <p>22 withheld, or if there was important information being</p> <p>23 withheld?</p> <p>24 MR. WALKER: Object to form.</p> <p>25 A. I feel like I'm not quite catching your</p>	<p style="text-align: center;">Page 49</p> <p>1 there that's been reported by thousands and thousands of</p> <p>2 papers. So I think their getting upset about something is</p> <p>3 their just own worry. It's not necessarily something</p> <p>4 that's of any clinical concern.</p> <p>5 Q. Are you familiar with the MAUDE database</p> <p>6 within the FDA and the requirement of device manufacturers</p> <p>7 and other even pharmaceutical manufacturers to report</p> <p>8 adverse events that they learn of through their work?</p> <p>9 MR. WALKER: Object to form.</p> <p>10 A. I know something about the MAUDE database.</p> <p>11 I really don't know all the details about the MAUDE</p> <p>12 database.</p> <p>13 Q. But you're at least familiar with the fact</p> <p>14 that doctors are required to report adverse events that</p> <p>15 they experience with the products that they use?</p> <p>16 A. I don't know that "required" is the right</p> <p>17 word. I don't know that for a fact. But is that</p> <p>18 suggesting that any type of complication that I'm having</p> <p>19 I'm supposed to report back to the MAUDE database?</p> <p>20 Q. Well, I'm asking you, are you familiar</p> <p>21 with the concept that doctors, when they see an adverse</p> <p>22 event, have an obligation to either report it to the FDA or</p> <p>23 back to the manufacturer? Are you familiar with that at</p> <p>24 all? Is that your understanding?</p> <p>25 A. I'm not familiar with that.</p>

Page 50	Page 52
<p>1 Q. Are you aware of any studies that are 2 based off of the adverse events that are reported, either 3 or both to the MAUDE database or to the manufacturers? Are 4 you aware of any studies that use that data as part of 5 their study?</p> <p>6 A. Not specifically. It wouldn't surprise me 7 if there is, but I don't know off the top of my head.</p> <p>8 Q. Are you aware of any requirement of the 9 manufacturer to provide the FDA with adverse event 10 information that they obtained from the doctors in the 11 field that are using their products?</p> <p>12 A. I don't know that I am or not. The reason 13 I'm hesitating a little bit is because, as I stated before, 14 I do proctor Interstim cases, which is an implantable 15 device. And so if there's a problem with a device, then I 16 get some paperwork that I'm supposed to fill out. But I 17 don't get anything for anything else. I don't know of any 18 other database or studies or -- I don't remember your exact 19 question, but I don't know that I'm real familiar with 20 that.</p> <p>21 Q. Okay. If a manufacturer, a device 22 manufacturer, is aware of complications that they are 23 seeing in the medical community, do you feel that they have 24 an ethical responsibility to advise the doctors using their 25 products of the rate of incidence that they are seeing</p>	<p>1 device?</p> <p>2 MR. WALKER: Object to form.</p> <p>3 A. That was a long question. But the answer 4 is, no, I don't think they have to report every adverse 5 event.</p> <p>6 Q. Let's go to your report. We're doing two 7 separate today, so we're going to be talking about TVT-O 8 and TTVT-S. Do you care if I go with one first or the 9 other, because my outline kind of goes by the report.</p> <p>10 So are you here today to offer any 11 opinions with regard to the TTVT device, the retropubic 12 device?</p> <p>13 A. No, ma'am.</p> <p>14 Q. Because I noticed in your report that you 15 do have sections with regards to the TTVT device.</p> <p>16 A. Yes, ma'am, and that's as a baseline 17 because that's where it all started. So to come up to date 18 with things I needed to be as complete as I could, and that 19 had to be part of my report in order to get to where I 20 wanted to get.</p> <p>21 MR. WALKER: Yeah, we're only disclosing 22 him as an expert for TTVT-O and TTVT-Secur.</p> <p>23 Q. Okay. Well, then I won't drill you too 24 hard with the TTVT device today other than just the general 25 that needs to be included to understand the materials we're</p>
Page 51	Page 53
<p>1 these problems?</p> <p>2 MR. WALKER: Object to form.</p> <p>3 A. Well, I suppose, but let me -- to me, that 4 doesn't quite make sense, because I don't know how the 5 device manufacturers are knowing how the patients are doing 6 when they are not the one seeing the patients. So I would 7 think that more likely that the physicians themselves who 8 are conducting the studies would actually provide that 9 information in all the 2,000 or 3,000 different studies 10 that have been done.</p> <p>11 So I don't know that the manufacturer has 12 -- I mean, I think that gets out to the manufacturer 13 secondarily through the physicians, but I don't know that 14 they are the ones that are seeing it. So I think it's 15 already out there of anything going on with any products 16 because they can see that.</p> <p>17 Q. In the cases where the doctors are not 18 involved in studies and not gathering data for a particular 19 purpose, simply doctors who have experienced an adverse 20 event with their patients that they bring to the attention 21 of the manufacturer, do you feel that once the manufacturer 22 learns this from the doctor that's in the trenches, not 23 doing the study, that they have an obligation to report 24 that information and to investigate it to make sure that 25 it's not a red flag of some sort of problem with the</p>	<p>1 going to be going over.</p> <p>2 The first section I want to talk to you 3 about is you've got a section entitled "Stress Urinary 4 Incontinence," and it's on page 2 of your report.</p> <p>5 A. Yes, ma'am.</p> <p>6 Q. And you discuss urinary incontinence and a 7 little bit of the background on it, and I just wanted to 8 focus your attention on the last paragraph where it talks 9 about the economic burden. The very last sentence, "The 10 economic burden of SUI is in the billions."</p> <p>11 Do you recall where that number came from?</p> <p>12 A. No, actually, I don't, but I do remember 13 that was part of one of the things I read, but I 14 couldn't -- well, after I read it I remember thinking about 15 it, and it's been in my head a long period of time. It 16 wasn't necessarily associated with coming up with this 17 report specifically, but, you know, because of all the work 18 that I do in incontinence, it's something that I came 19 across in the past and it just stuck with me.</p> <p>20 Q. Have you also reviewed anything that 21 discusses the economic burden of treating complications 22 with regards to sling devices?</p> <p>23 MR. WALKER: Object to form.</p> <p>24 A. Have I reviewed that?</p> <p>25 Q. Yes, sir.</p>

Page 54	Page 56
<p>1 A. I tried, but there's a lot overlap between 2 stress incontinence. Some patients have stress 3 incontinence, some patients have urge incontinence, some 4 have both. So to really pinpoint it for stress 5 incontinence is very, very difficult.</p> <p>6 Q. Are you familiar with the -- or are you 7 aware of whether or not Medicare had to come up with a 8 coding system to treat complications with regards to 9 medical sling devices?</p> <p>10 MR. WALKER: Object to form.</p> <p>11 A. Was I aware that Medicare came up with a 12 coding system?</p> <p>13 Q. For billing for services performed to 14 treat complications with mesh devices.</p> <p>15 A. Oh, you mean a different CPT code?</p> <p>16 Q. Yes.</p> <p>17 A. Yes, I think I was aware of that.</p> <p>18 Q. And in your research, you did not come 19 across anything with regards to Medicare or Medicaid that 20 suggested what the economic burden has been with regard to 21 the treatment of the adverse events relating to the mesh 22 device?</p> <p>23 MR. WALKER: Object to form.</p> <p>24 A. Again, going through all this, I tried to 25 find as much information as possible, good and bad, and I</p>	<p>1 Q. And in your practice, based on your 2 experience, should any of these conditions be 3 contraindications -- other than pregnancy and childbirth, 4 should any of these other conditions be contraindications 5 for having a transvaginal mesh device implanted?</p> <p>6 A. Well, each individual that comes in my 7 office has their own set of problems. They're unique, 8 right? So you have to take all these things into 9 consideration to determine if that's the best way of going 10 about things.</p> <p>11 I mean, a little lady who is 90 years old 12 who may leak a little bit here and there and wears a pad is 13 maybe completely fine with that. And another one who's 90 14 may come in and be completely upset about that. So, you 15 know, you have to factor all that into consideration, their 16 health. And so are these general contraindications? Other 17 than pregnancy, those are all things you have to factor, 18 but they are not contraindications.</p> <p>19 Q. But they are things that each doctor 20 should consider when deciding and having a conversation 21 with the patient about whether or not to have the device 22 implanted. Is that fair?</p> <p>23 MR. WALKER: Object to form.</p> <p>24 A. Rephrase your question again.</p> <p>25 Q. Sure. But this is a conversation that you</p>
<p style="text-align: center;">Page 55</p> <p>1 couldn't find anything specific for that one particular 2 question that you had.</p> <p>3 Q. So you don't know the economic burden with 4 regards to the treatment of complications related to mesh 5 devices sitting here today?</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. No, not specifically.</p> <p>8 Q. On page 3 you talk about the risk factors 9 for developing SUI, and some of them are -- include age, 10 Caucasian or Hispanic race, obesity, smoking, chronic 11 cough, pregnancy and childbirth, nerve injuries to the 12 lower back and pelvic surgery. Those were ones that you 13 listed, at least here.</p> <p>14 Are you aware of whether or not those 15 conditions are also contraindications to having the 16 procedure or a sling device or a transvaginal mesh device 17 implanted?</p> <p>18 A. You're asking if any of these things 19 listed are a contraindication to having a sling placed?</p> <p>20 Q. Yes, sir.</p> <p>21 A. Yes.</p> <p>22 Q. Which ones?</p> <p>23 A. Pregnancy.</p> <p>24 Q. Anything else?</p> <p>25 A. Not that I'm aware of.</p>	<p style="text-align: center;">Page 57</p> <p>1 would have individually with your patients in discussing 2 the risks and benefits of having the device implanted. Is 3 that fair?</p> <p>4 A. Well, what this list is, is why do people 5 develop urinary incontinence in the first place, right? 6 Not necessarily would that prevent them from having the 7 surgery afterwards. I mean, if they are obese, would you 8 like the patient to lose weight? Yes. But in all 9 likelihood, is that patient likely going to lose a lot of 10 the weight? Probably not significantly in a short period 11 of time.</p> <p>12 So, again, these are things you discuss 13 with the patient before and you tell them, you know, you're 14 at risk for the incontinence because of this and you're 15 also at risk for this recurring possibly afterwards because 16 of these things if you don't change your habits, quit 17 smoking, et cetera. So those are conversations you have to 18 have with the patients.</p> <p>19 Q. I guess that's what I was getting at. If 20 these are risk factors for the condition of being 21 incontinent in the first place, these risk factors also 22 increase the risk that a patient may develop a recurrence, 23 and does that in any way factor into your recommendation on 24 whether or not to use the device?</p> <p>25 A. So, no, it does not, and I'll tell you</p>

Page 58	Page 60
<p>1 why. It's because these patients are coming in because 2 they are upset, they are depressed, they are sad. They are 3 having to spend a fortune on pads and they're upset. And 4 so if you say, well, ma'am, you know, you are slightly 5 obese, so, therefore, no surgery, well, that patient is 6 going to keep -- I mean, is going to be upset about all 7 these other things. So they're obese because they can't 8 work out, right? So maybe if you place a sling, now they 9 are able to work out and lose weight.</p> <p>10 So I guess the answer is it's more 11 convoluted than that. It's more complicated than just 12 saying those are risk factors for recurrence. I mean, yes, 13 but the alternative is maybe nothing and they would be very 14 unhappy with that, and a hundred percent recurrence rate if 15 you never do surgery in the first place.</p> <p>16 Q. But as far as the risks that are 17 associated with the procedure, when you're balancing the 18 risks with benefits, if there's a high likelihood of 19 recurrence, is it, in every situation, worth the risk that 20 they are exposed to these other potential adverse events in 21 order for the product not to work?</p> <p>22 MR. WALKER: Object to form.</p> <p>23 A. Well, in my hands and in the studies I've 24 seen, adverse events are low enough that it's reasonable, 25 and you have that conversation with the patient</p>	<p>1 regards to the treatment that they are receiving? 2 MR. WALKER: Object to form. 3 A. No. Those are just part of our -- you 4 know, when they are coming in to talk to us, they're just 5 part of the whole process. It gets us started on our 6 conversation, but there's no way that we use those 7 questionnaires solely to make our decision on. It's part 8 of the conversation that gets us going and going through 9 all the questions that we need to ask to determine if they 10 are a candidate or not.</p> <p>11 Q. And you wouldn't rely on these 12 questionnaires, for example, if they are filled out after 13 they've had the sling procedure to give you a complete 14 picture of what the patient may or may not be experiencing 15 with regards to their mesh device. Would you agree with 16 that?</p> <p>17 MR. WALKER: Object to form.</p> <p>18 A. It can be used at any point in time. I 19 don't know that it's all that helpful. I mean, again, it 20 gets the conversation going and so patients feel more 21 comfortable talking about some of the things that maybe 22 they hadn't thought about.</p> <p>23 Q. Are these the same type of questionnaires 24 that are used in some of the studies that you've reviewed 25 regarding this litigation?</p>
<p style="text-align: center;">Page 59</p> <p>1 individually so they understand the risks and the benefits 2 and then they can make their own informed consent, just 3 like any surgery, all right? If they feel like the risks 4 are too high, then they may opt not to have surgery.</p> <p>5 Q. If you look down at the paragraph right 6 before treatment options for SUI, you discuss some 7 questionnaires that could be helpful, and you include the 8 King's Health Questionnaire, Bristol Female Lower Urinary 9 Tract Symptoms Questionnaire, Stress and Urge Incontinence 10 Quality of Life Questionnaire.</p> <p>11 Do you know when these questionnaires 12 began being used in your field?</p> <p>13 A. I don't know.</p> <p>14 Q. Have they been around for a long time?</p> <p>15 A. I'd have to go look and see. I'm not 16 exactly sure when they came out.</p> <p>17 Q. Have you reviewed each one of these 18 questionnaires before?</p> <p>19 A. It's been a while since I've looked at 20 them.</p> <p>21 Q. Do you have any idea who drafted those 22 questionnaires?</p> <p>23 A. I don't.</p> <p>24 Q. Do these questionnaires cover all 25 potential problems that these women may experience with</p>	<p style="text-align: center;">Page 61</p> <p>1 A. These questionnaires are -- no. Well, let 2 me rephrase that. They could be, but it's not something 3 that I hunted down to find. And they may be part of the 4 questions, but when we're looking at the data, it doesn't 5 say the King's Health Questionnaire number was X, Y or Z. 6 You know, you're looking at preoperative stress 7 incontinence with the urodynamic studies look like this 8 type of thing.</p> <p>9 So could they be? They could be, but they 10 are not specific and, you know, they are not a very 11 important part of what we're -- how we discuss things with 12 the patients.</p> <p>13 Q. In these studies that do include some form 14 of questionnaire in determining the data and the opinions 15 that come from those studies, is it important if you're 16 trying to determine safety and efficacy for a questionnaire 17 to be complete on at least the things that are being 18 studied?</p> <p>19 MR. WALKER: Object to form.</p> <p>20 BY MS. BAGGETT:</p> <p>21 Q. For example, if this study were geared 22 towards determining how many patients had experienced 23 dyspareunia with regard to a product and you would expect 24 that that questionnaire would have a question with regards 25 to dyspareunia. Is that fair?</p>

Page 62	Page 64
<p>1 A. If there's a study specifically looking 2 for dyspareunia? Well, first of all, I don't know how you 3 would make a study looking just for dyspareunia, right? 4 But if you're looking just for all patients, they can be 5 helpful, but these don't necessarily mean that that's the 6 only thing the patients -- I don't think your question -- I 7 don't think what you're saying and what I'm thinking is 8 jibing, because I'm thinking of these questionnaires as 9 just basic forms the patients fill out when they come into 10 the office to help with the clinician determining if the 11 patient is a candidate for surgery.</p> <p>12 I think what you may be referring to is 13 some type of useful tool that's used in studies to help 14 determine quality of life and adverse events. And, 15 honestly, I don't view them the same way that you're 16 viewing them.</p> <p>17 Q. And I think maybe that transition is what 18 I need your help understanding. It may not be this exact 19 questionnaire, but would you agree that for the studies 20 that include a component where the only information that 21 they obtain from the plaintiff is through the 22 questionnaire, do you believe that that questionnaire 23 should include some questions with regard to the adverse 24 events that you are trying to study with that particular 25 study? And by that I mean if -- I understand you said that</p>	<p>1 Q. So the purpose of the study, whatever the 2 purpose is, is what the study will ultimately report on. 3 Is that fair?</p> <p>4 A. Not necessarily. You might find things 5 you weren't expecting to find, or you might find things 6 that you'd have to stop the study for them. I think in 7 general people try to set studies up initially to be able 8 to predict the future of what they are going to find, but 9 they may find things that they weren't expecting. I think 10 that's what happened in the early years before they were 11 really looking at this. They weren't expecting to find any 12 issues. Before mesh was even on the market, you know, they 13 were looking at these studies, and they were very specific 14 about retention rates and those things. But they were 15 finding these other things and then that kind of propagated 16 from there.</p> <p>17 Yes, maybe, but not necessarily every 18 time.</p> <p>19 Q. Page 4 of your report, if we could look 20 down. And I know I'm not going through it line-by-line. 21 I'm trying to hit some of the more significant points to me 22 so that I understand what's been proposed here and what 23 your opinions will actually be.</p> <p>24 I guess this would be a good point for me 25 to ask you, are all the opinions that you hold in this case</p>
<p style="text-align: center;">Page 63</p> <p>1 you wouldn't have a study just based on dyspareunia, but if 2 that was one of the things the study was supposed to 3 report, would you expect that the questionnaire should have 4 a question -- series of questions with regards to 5 dyspareunia in order to be able to report in that study 6 whether or not dyspareunia and the frequency and the 7 severity, things like that? You would expect that question 8 to be asked in the questionnaire, would you not?</p> <p>9 MR. WALKER: Object to form.</p> <p>10 A. Yeah, that's a good question. I think 11 that it's interesting. You know, when I was going through 12 this, I was looking specifically for dyspareunia rates in 13 the early stages of any type of stress incontinence 14 surgery, and they're just not there. They don't mention 15 them, all right? There's a few studies that do. But if 16 you're asking me specifically for adverse events, I think 17 each study individually is set up specifically to figure 18 out what outcomes they want. And so it could include 19 dyspareunia, it could not. But it really depends on an 20 individual study, the way it's set up, you know.</p> <p>21 Q. And so I guess the purpose of the study 22 somewhat drives the information that will be contained in 23 that study. Is that what you're trying to say?</p> <p>24 A. You said "study" twice. I'm not quite 25 sure I understand how you --</p>	<p style="text-align: center;">Page 65</p> <p>1 contained in your report?</p> <p>2 MR. WALKER: In terms of his general 3 opinions?</p> <p>4 MS. BAGGETT: Yes.</p> <p>5 THE WITNESS: Are all my opinions in this 6 report? As of now. Those opinions may change.</p> <p>7 BY MS. BAGGETT:</p> <p>8 Q. And that would be based on what?</p> <p>9 A. Data.</p> <p>10 Q. Since the date that you finalized this 11 report, has any additional data been reviewed by you that 12 affected your opinions in this report?</p> <p>13 A. I've reviewed other data, but nothing 14 that's affected my opinion. Again, you got to remember, I 15 mean, part of my daily routine is reading, you know. And 16 so reading about this, reading about other things I do, so 17 I'll continue to monitor it.</p> <p>18 Q. I'm trying to understand this section 19 under midurethral slings in that second paragraph.</p> <p>20 MR. WALKER: On page 4?</p> <p>21 MS. BAGGETT: Yes.</p> <p>22 BY MS. BAGGETT:</p> <p>23 Q. "One constant factor over the years since 24 the first procedure, there has never been one procedure 25 that has high success rates with good durability and with</p>

Page 66	Page 68
<p>1 low complication rates until now with the midurethral 2 slings. If there had been, then there would not be a host 3 of operations that have been tried and failed over the last 4 hundred years."</p> <p>5 Is there any study in particular that you 6 base this paragraph off of?</p> <p>7 A. Not one in particular. I think the point 8 of that is there's been thousands of studies done, and 9 initially the studies were done to compare midurethral 10 slings with either what was the standard at the time, 11 either Burch or pubovaginal slings, right? So at that 12 point, it was fairly obvious there was a lot less problems 13 with the midurethral slings than there were with the Burch 14 and the pubovaginal slings.</p> <p>15 So that transitioned into the studies now 16 being all done comparing to each other. It's rare you find 17 studies comparing to the pubovaginal slings or the Burch 18 procedures. And so in the past, that's never been the 19 case. So now you're seeing a transition of all the data to 20 just look at those different corporations that make the 21 different products. And the other things are still 22 available, but rarely used.</p> <p>23 And so that's what my comment on this is, 24 is that you're seeing a transition from, hey, we need to 25 try this, we need to try doing a bone anchor, we need to</p>	<p>1 Q. For the most part I think. I think we'll 2 get into it as we get later into it. If not, I'll come 3 back to it.</p> <p>4 Now, you were discussing some of the 5 earlier procedures, such as the Burch and the autologous 6 slings. Are you aware of any more current studies that 7 compare those procedures with mesh products or not and 8 what the data -- if the data has changed with regards to 9 the cure rates of each device? Or each procedure, sorry.</p> <p>10 A. I can't remember if the Shim study looks 11 at all the pubovaginal slings and Burches.</p> <p>12 How recent are you talking?</p> <p>13 Q. I guess, to be more precise, are you aware 14 of any changes in the medical literature with regard to the 15 comparison between the prior procedures without mesh versus 16 the procedures that use mesh?</p> <p>17 MR. WALKER: Object to form.</p> <p>18 A. I can't think of any.</p> <p>19 Q. If you look on page 5, section Rationale 20 on Clinical Decision Making Favoring TTV, the 21 second-to-last paragraph it starts, "Making decisions based 22 on the medical literature is what allows us to make 23 informed rational decisions." And I think you alluded to 24 that earlier in some of your responses, that you're the 25 type of doctor that reads the medical literature and learns</p>
<p>1 try using cadaveric fascia, we need to try using autologous 2 fascia, we need to try incorporating some type of mesh in 3 our own way, we need to go make an incision 4 laparoscopically. All these things were done until these 5 mesh slings came around, which changed the complete 6 complexion of everything. If they didn't work, weren't 7 successful, then we would have lost that. We would 8 continue to be searching for something that was better.</p> <p>9 Q. That's the point I was trying to get at, 10 is searching for something better, that component of it.</p> <p>11 Is it not true these device manufacturers 12 continuously try to improve on their products and develop a 13 better mesh?</p> <p>14 A. I hope so.</p> <p>15 Q. So that's one of the reasons why -- or 16 what do you understand one of the reasons for the single 17 incision sling being?</p> <p>18 A. So what I mean by "I hope so," is that if 19 a company stands pat with the product that is has and never 20 tries to improve upon it, then that stalls innovation. We 21 would never get to point we're at, right? So I'm hoping 22 surgeons, physicians, clinicians, engineers, companies, are 23 all trying to improve upon what we already have. So, yes, 24 I would expect that.</p> <p>25 Did that answer your question adequately?</p>	<p>1 from that.</p> <p>2 Is that a fair representation of what you 3 said earlier?</p> <p>4 A. Yeah, that's adequate.</p> <p>5 Q. Then it goes on to say, "How do we make 6 those decisions? Partly on personal experience, but 7 significantly on the experience of others relayed in 8 medical journals. Hopefully and ideally this is unbiased, 9 unflawed information, but deciphering information presented 10 while understanding this bias is also a learned skill."</p> <p>11 What did you mean by that?</p> <p>12 A. So part of what happens is we get 13 bombarded with this study, this study, this study, this 14 study. And after you're reading numerous studies, you 15 start to see this is a good study, the way it was put 16 together, it was well put together, this study is flawed 17 for these reasons, there may be a bias because this surgeon 18 only likes this type of procedure. So those are all built 19 in.</p> <p>20 Every study is going to have a little bit 21 of a bias. So you have to be able to look at that study in 22 the back of your mind thinking that this physician or this 23 group of physicians is looking at this specifically. What 24 can I see in that study that would unbias it and then be 25 able to look at it more objectively.</p>
	Page 69

Page 70	Page 72
<p>1 Q. Would one bias, in your opinion, be based 2 on whether or not the investigators are involved with or 3 have support from device manufacturers?</p> <p>4 A. That's part of it, sure.</p> <p>5 Q. And is it important in your role as a 6 treater of women with incontinence using these devices -- 7 is it important to you that the information in these 8 studies is as unbiased and unflawed as possible?</p> <p>9 MR. WALKER: Object to form.</p> <p>10 A. That's an ideal situation, right? Rarely 11 do we come up with that. That's part of reading the 12 journals, is to say where does this person's background 13 come from and then interpret it based on that.</p> <p>14 Q. But as the doctor working in the trenches 15 and using these devices, do you always have time to go back 16 and look at the underlying data and research the 17 investigators to determine the reliability of the study?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 A. So there's those type of studies that are 20 individual studies, you know, whether they're randomized 21 controlled or whether they're just case studies or 22 retrospective studies. So that's part of it. But, then, 23 you know, that's a part of the puzzle, right? That one 24 study is a small part of the puzzle. And big meta 25 analysis, those are very helpful.</p>	<p>1 A. I'm not exactly sure how to answer that 2 question. But I think what I'm hearing from you is do I 3 rely on one specific study to relay to my patients.</p> <p>4 Q. Well, it's a little more than that. I'm 5 just saying in all the materials that you reviewed in the 6 course of your experience and your field of study and your 7 treatment of these women, all of the materials that you 8 review influence your understanding of a particular 9 condition or treatment. Is that fair?</p> <p>10 A. I think that's fair.</p> <p>11 Q. So if any of that information was wrong in 12 some significant way, the information that you relay to 13 your patients when you're having this discussion with them 14 about whether or not the treatment is appropriate for them, 15 you cannot relay information that you don't have to a 16 patient that would allow them to make the decision based on 17 that information. Is that fair?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 A. So when I get an individual study, if that 20 individual study is leaving out information and it seems 21 contrary to what's already been published, that's a big red 22 flag, right? However, that should be ferreted out over 23 time, and that one particular study may not be in a month 24 from now or a year from now reproducible.</p> <p>25 So any time I get an individual study,</p>
Page 71	Page 73
<p>1 So, yeah, I don't necessarily look up 2 every individual. However, it's oftentimes disclosed right 3 there on the front and so -- or the urology community is 4 pretty small. The same physicians tend to write the same 5 articles and so you kind to know already where a lot of 6 those people are coming from.</p> <p>7 Q. But do you agree that it's important that 8 the data that is obtained from the investigators in these 9 studies is presented accurately and truthfully?</p> <p>10 MR. WALKER: Object to form.</p> <p>11 A. Ideally you would, but every study -- 12 you're going to be able to find a flaw with every study 13 somehow, whether it be the way they present it, the 14 different types of statistical analysis they are using to 15 try to prove their point. Those are the things with years 16 and years and years of reading these journals, you are able 17 to see through a little bit.</p> <p>18 Q. If the data in any particular study has 19 been manipulated or reported inaccurately, with regards to, 20 say, the adverse events that were seen in that particular 21 study, and it's not obvious to you on the face of the 22 document, then would you agree that you can't relay 23 anything more than what is apparent in that study to the 24 patients that you treat?</p> <p>25 MR. WALKER: Object to form.</p>	<p>1 again, it gets put in the database, processed. But if I 2 get something that's contrary to what's already been 3 published, then that tells me I need to continue and pay 4 attention to this to see if there's other studies to 5 reproduce that one study.</p> <p>6 That happened with, you know, testosterone 7 usage back and forth. So now it's kind of swinging to one 8 side. So now my antenna is up to think about how -- if 9 there's going to be more studies on testosterone to support 10 what's already out there.</p> <p>11 The same thing with the slings. If 12 there's something out there that catches my eye, there 13 better be another study coming down the road that's going 14 to either refute it or confirm it. And that is a continual 15 process.</p> <p>16 Q. But it's not always obvious on first 17 glance whether or not a study has flawed data or has 18 presented data in a flawed way?</p> <p>19 A. I assume every study has a little bit of 20 bias. So I'm always sceptical when I read any study. I 21 don't think you can look at one study and say, oh, my 22 goodness, this is a panacea of all studies, right? So is 23 there going to be things that may be left out, either 24 purposely or unpurposely? Possibly.</p> <p>25 Q. Does that bother you in any way with your</p>

Page 74	Page 76
<p>1 treatment of these women and recommending the product to 2 them, that there is bias -- do you feel in any way that 3 that affects your practice and your relationship with your 4 clients in recommending a particular treatment?</p> <p>5 A. No.</p> <p>6 MR. WALKER: Object to form.</p> <p>7 THE WITNESS: No. And, again, because of 8 what I said before, it's just part of the 9 equation.</p> <p>10 BY MS. BAGGETT:</p> <p>11 Q. Do you think it's fair to women receiving 12 these products to receive them based on flawed information 13 when that information was known and could have been 14 provided before they were treated with the product?</p> <p>15 MR. WALKER: Object to form.</p> <p>16 A. Well, you said -- to answer that question 17 assumes I'm saying it's flawed information.</p> <p>18 Q. Okay. Let's do it as a hypothetical.</p> <p>19 A. Okay.</p> <p>20 Q. If you have a patient that you're treating 21 with a product and the information that you've obtained in 22 all your research suggests that it is the product that's 23 appropriate for that particular patient, and you find out 24 later that there was something about the data that was not 25 presented to you that made it less appropriate for that</p>	<p>1 MR. WALKER: Object to form.</p> <p>2 A. No. There's no way to predict every --</p> <p>3 I'll just leave it at that.</p> <p>4 Q. Okay. Let's turn to page 6. In the 5 second-to-last paragraph you say in your opinion, the 6 treatment for stress urinary incontinence should be viewed 7 in different eras before the TVT, which was cleared by the 8 FDA in 1998. And then the next sentence I wondered if you 9 would explain that to me. "The number of different types 10 of pubovaginal slings, bone anchor slings, retropubic 11 surgeries are numerous generally because of lack of 12 long-term efficacy combined with the morbidity associated 13 with each treatment." If you could explain that.</p> <p>14 A. Sure. So I guess my sentencing wasn't 15 very good there, or sentence structure. It's been awhile 16 since I took English.</p> <p>17 What I'm trying to get across is that -- 18 like we mentioned before, before midurethral slings we 19 would do these other types of surgeries. Well, there was 20 always -- none of these surgeries were really 21 device-driven. They were all individual. Maybe the bone 22 anchor slings were somewhat device-driven. But by and 23 large these were all just different types of surgeries 24 using different types of material. They weren't very 25 reproducible because there was no set way of -- you know,</p>
<p>1 person, which resulted in them sustaining some 2 complications they could have avoided, would that bother 3 you?</p> <p>4 MR. WALKER: Object to the form.</p> <p>5 A. That scenario wouldn't happen.</p> <p>6 Q. Could you explain that?</p> <p>7 A. Well, because if you're basing your 8 decision making on one study of one product, then you 9 shouldn't be performing that procedure. It's not until 10 you've looked at, you know, thousands and thousands and 11 thousands of these studies can you really come to a 12 conclusion -- not thousands of study -- I should say 13 thousands of patients being treated -- before you could 14 really say -- you know, you may be able to hide one study, 15 but you can't hide 500 studies. You can't hide a thousand 16 studies. If there was a new product that was out that I 17 wasn't familiar with and I had a study, I would wait until 18 there was a little bit more data, me personally.</p> <p>19 Q. Were you familiar -- we'll get back to 20 that in a minute.</p> <p>21 Do you agree with the concept that a 22 device manufacturer should provide all information that 23 they know about the adverse events that have been 24 associated with their product before they put it on the 25 market?</p>	<p>1 surgeries that you could look and see this is how you do 2 the surgery. But each individual physician had their own 3 way of doing that particular sling or bone anchor or 4 retropubic or what have you. And it's hard to standardize, 5 number one.</p> <p>6 Number two is, over time you kept seeing 7 that these procedures were -- just people were either 8 having a high number of problem with retention with the 9 pubovaginal slings, or over time these things were just 10 wearing out and their incontinence was returning at a much 11 higher rate than what we would see with the midurethral 12 slings.</p> <p>13 So efficacy, so lack of ability to fix the 14 problem, and combined with the high rate of problems that 15 they were having with them led to the situation now where 16 we have a more effective, less morbid procedure than 17 before.</p> <p>18 Q. Okay. So if I understand you correctly, 19 you're suggesting in this paragraph that the midurethral 20 slings have better efficacy and less morbidity than things 21 like the pubovaginal sling and other surgeries that do not 22 include mesh. Is that fair?</p> <p>23 A. That's fair.</p> <p>24 Q. Okay. The next paragraph begins right 25 after that and starts, "Also, as a physician and surgeon, I</p>

Page 78	Page 80
<p>1 appreciate and utilize the current medical literature to 2 shape and change my practice with the patient's best 3 interest at heart. The literature is culled and reviewed 4 to stay current with trends in medicine. Without that 5 continued dialogue between practicing frontline urologists 6 and academic urologists, there becomes a disconnect between 7 what is theoretically going to possibly happen and what is 8 happening with each individual patient."</p> <p>9 The section next is what I really want to 10 ask you about. "The device companies listen to the 11 frontline high-volume urologists to let them know what they 12 like and don't like about each of their products. This 13 message is then relayed eventually to the academicians who 14 have the time and resources to do large volume, randomized 15 clinical trials." I want you to explain that a little bit 16 for me.</p> <p>17 A. So, you know, it's like a pyramid. So the 18 bottom of the pyramid is all the practicing urologists who 19 see patients, do surgery, you know, take care of patients 20 in the hospital, those type of things. A lot of volume, 21 lot of patients, but no time to do any, you know, really 22 data gathering to present articles.</p> <p>23 So how does that -- all those patients, 24 how do we-- because that's a huge number of patients 25 compared to the number of patients that are in the studies.</p>	<p>1 there, depends on how open that is, but then also up to the 2 academic guys, yeah.</p> <p>3 Q. Are you suggesting with this section that 4 when a manufacturer learns about something good or bad that 5 they should share that information --</p> <p>6 MR. WALKER: Object to form.</p> <p>7 MS. BAGGETT: -- with the medical 8 community?</p> <p>9 THE WITNESS: I think that's something 10 that each individual -- well, I think that's 11 something that each individual company has to 12 decide on their own. And then I think also that 13 it's not necessarily something they have to share 14 with the community, but it's something that needs 15 to be evaluated and looked at and discussed.</p> <p>16 I mean, look, there's no perfect procedure for 17 anything and so it always can be improved upon. 18 And that's my point, is if we just said, oh, this 19 is perfect, we never have any issues with 20 anything, then there's never this idea about 21 improving upon what we already have.</p> <p>22 BY MS. BAGGETT:</p> <p>23 Q. Do you hold any opinions or are you 24 familiar with the FDA review process for getting devices to 25 the market?</p>
<p style="text-align: center;">Page 79</p> <p>1 So how does the whole process occur? Well, at the 2 meetings, just talking to your colleagues, you know, those 3 type of things get disseminated through the sales reps. 4 Things that, hey, I'm seeing this with this product, I'm 5 seeing this with this product. We need to, you know, look 6 at this. So that gets disseminated up the corporate chain 7 of issues. And then also it goes up the academic chain 8 with the urologists who are more at the top. They don't 9 see as many patients so their volume is lower, but they do 10 a lot of paper writing, right? And so people read the 11 papers, right? We have no voice as working, practical 12 urologists. So how's does our voice be heard? By making 13 sure that the other urologists know what's going on.</p> <p>14 Q. I guess that's what I was alluding to a 15 little earlier in some of our discussions.</p> <p>16 So based on the practicing doctors in the 17 field, they're relaying information on what they like and 18 what they don't like about the product, including 19 potentially any adverse events that they've had, they're 20 relaying that back to the company?</p> <p>21 A. Uh-huh.</p> <p>22 Q. And then the company is then relaying that 23 to the academicians. Is that what you're trying to say?</p> <p>24 A. Not only that, back and forth between the 25 clinicians and the company. There could be a dialogue</p>	<p style="text-align: center;">Page 81</p> <p>1 A. On the surface, but nothing in detail.</p> <p>2 Q. You're not going to hold any opinions here 3 today as to whether or not Ethicon complied with the FDA 4 regulations for marketing their products?</p> <p>5 A. I know they went through the proper 6 channels to get the FDA to approve it. From a physician's 7 standpoint, that's really all that I'm concerned about.</p> <p>8 Q. What do you base that knowledge on?</p> <p>9 A. I'm not sure I understand what you're 10 asking me.</p> <p>11 Q. Well, you said the fact that they were 12 approved through the FDA.</p> <p>13 A. Well, I guess I'll put it to you simply 14 this way. As a clinician, if I know it's FDA approved, 15 then I feel like that's an adequate way for each individual 16 product to be cleared. And the amount of hurdles it has to 17 go through to pass the FDA is substantial enough that 18 that's their job, that's their role as a regulatory -- you 19 know, I'm not a regulator so I don't know all the rules and 20 regulations. But I do know once it comes to market that, 21 you know, we should feel that the FDA has done their due 22 diligence.</p> <p>23 Q. And are you familiar with the difference 24 between having a product cleared versus approved?</p> <p>25 A. Yes.</p>

Page 82	Page 84
<p>1 Q. And what is your understanding of that 2 distinction?</p> <p>3 A. One has to do with devices and one has to 4 do with medications.</p> <p>5 Q. Are you familiar with something called the 6 (510)k process?</p> <p>7 A. Through my review of things I have become 8 familiar with it somewhat.</p> <p>9 Q. What's your understanding of the 10 difference between the 510(k) process and pre-market 11 approval process?</p> <p>12 A. It seems to me the 510(k) process -- and, 13 again, I'm not a regulator so I'm talking off-the-cuff a 14 little bit -- is when another device is already approved, 15 and based on that device they can move the FDA process a 16 little bit quicker in order to -- because there's already 17 been safety and efficacy from the previous product, they 18 can use that as their basis to get another product 19 approved.</p> <p>20 Q. So would you agree that that process is a 21 little less intensive for the manufacturer than the 22 full-blown pre-market approval process?</p> <p>23 A. Likely, but I have no way of knowing that.</p> <p>24 Q. And are you familiar with the process by 25 which the FDA actually scrutinizes the devices before they</p>	<p>1 MR. WALKER: Object to form.</p> <p>2 A. I think that the FDA has decided, in many 3 years, that there are certain processes to go through, and 4 I can't disagree with FDA's approval process.</p> <p>5 Q. Are you here today offering any opinions 6 on whether or not Ethicon complied with all the FDA 7 regulations with regards to the studies and the data in 8 order to get the products brought to market?</p> <p>9 MR. WALKER: Object to form.</p> <p>10 A. The FDA approves the products. They're on 11 the market so I have to assume that that was adequate for 12 the FDA. Again, I'm not a regulator; I'm just a clinician.</p> <p>13 Q. And that's what I'm trying to get at. Are 14 you going to be offering any opinions with regard to that 15 process and whether or not Ethicon complied with that 16 process?</p> <p>17 A. I'm not a regulator so I can't comment on 18 the regulations that go along with that.</p> <p>19 Q. So, no, you won't be?</p> <p>20 A. No.</p> <p>21 Q. Thank you.</p> <p>22 MR. WALKER: Can we take five minutes?</p> <p>23 MS. BAGGETT: Sure.</p> <p>24 (Thereupon a break was taken from 10:39 25 a.m. to 10:45 a.m.)</p>
<p style="text-align: center;">Page 83</p> <p>1 are put on the market?</p> <p>2 A. I have no inside information on that, 3 ma'am.</p> <p>4 Q. You mentioned earlier that the FDA does 5 its due diligence. What did you mean by that?</p> <p>6 A. Well, I mean, it's hard to get any product 7 on the market in America versus in a lot of other 8 countries. And so I think that's -- because of that, I 9 mean, the products that come out are generally viewed as 10 being tested of some sort, that they are safe, that they 11 say what they intend to do.</p> <p>12 So when they actually come on the market, 13 as physicians we don't have to go through that whole 14 process and review each step of the way. We just have to 15 assume that the FDA has their regulations they meet and 16 once it hits the market that we should feel comfortable 17 with it. I think if each individual clinician had to go 18 back and review the process that it took for each 19 individual product that comes to market, that would be too 20 onerous. There's no need for that, so...</p> <p>21 Q. And you agree that that's the way it 22 should be, that in order for a product to make it through 23 that process, that the proper studies had been done and 24 that there was some showing that the product was indeed 25 safe and effective?</p>	<p style="text-align: center;">Page 85</p> <p>1 BY MS. BAGGETT:</p> <p>2 Q. Doctor, before we went on break, we were 3 talking about your report and we were on page 7. One of 4 the questions we were talking about was the FDA clearance 5 process and whether or not you held any opinions with 6 regard to whether or not Ethicon complied with the 7 requirements of the FDA in getting the product to the 8 market. And you said you're not going to be offering any 9 opinions on that; is that correct?</p> <p>10 MR. WALKER: Object to form.</p> <p>11 A. That's correct.</p> <p>12 Q. And that second paragraph, starting with, 13 "Additionally the device companies are trying to respond to 14 the surgeons and improving the devices they already make. 15 The tendency is to compare the most recent prototype to the 16 gold standard, not the previous methodology, as can be seen 17 with some of the single incision slings, especially the 18 TTV-Secur. There was a steeper learning curve initially, 19 but still with very low side effects and complications."</p> <p>20 Do you see that section?</p> <p>21 A. Yes, ma'am.</p> <p>22 Q. Okay. Are you familiar with what process 23 the TTV device went through with regards to the FDA and 24 being brought to market?</p> <p>25 A. Which TTV device?</p>

Page 86	Page 88
<p>1 Q. Of the Secur. I'm sorry.</p> <p>2 A. Yes.</p> <p>3 Q. And what process was that? What route?</p> <p>4 A. 510(k).</p> <p>5 Q. And do you know if there were any studies</p> <p>6 in human subjects on the TTVT-Secur device before it was put</p> <p>7 on the market?</p> <p>8 A. I'm not aware.</p> <p>9 Q. You're not aware of whether there was or</p> <p>10 not, either way?</p> <p>11 A. I'm not aware that there were any studies</p> <p>12 on humans before it came to market. It was all based on</p> <p>13 previous -- the fact that the sling had been shown to be</p> <p>14 effective on the TTVT and the TTVT retropubic and TTVT-O.</p> <p>15 Q. Are you familiar with the differences</p> <p>16 between the TTVT-S device and the TTVT retropubic and the</p> <p>17 TTVT-O?</p> <p>18 A. The differences between the devices?</p> <p>19 Q. Yes.</p> <p>20 A. Yeah, there's differences between the way</p> <p>21 of placement. There's no difference in the mesh.</p> <p>22 Q. With regards to the mesh, it's still the</p> <p>23 same polypropylene, correct?</p> <p>24 A. I think, like we discussed earlier, the</p> <p>25 Secur is laser cut and -- but it's the same polypropylene</p>	<p>1 A. Ma'am, I'm not a regulator. I really</p> <p>2 don't know the specifics of how that occurs. I mean, I</p> <p>3 really don't.</p> <p>4 Q. Would you expect a manufacturer that is</p> <p>5 using a predicate device to get a product on the market to</p> <p>6 follow the guidelines and use products that are similar to</p> <p>7 the product that it's chosen as its predicate?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. Well, they're all slings, so I would</p> <p>10 suspect that they are very similar.</p> <p>11 Q. Would you expect that the data used to get</p> <p>12 the predicate devices on the market may not apply the same</p> <p>13 to a product that is not substantially similar to that</p> <p>14 product?</p> <p>15 A. Would you give me an idea about what you</p> <p>16 mean by "predicate"? I think I understand what you mean,</p> <p>17 but if you would just define that for, me what you're</p> <p>18 getting at I guess.</p> <p>19 Q. Sure. In the process of applying for a</p> <p>20 product to be approved to market, the FDA has a procedure</p> <p>21 where you go through this 510(k) process, and what you have</p> <p>22 to do is show the product is substantially similar to a</p> <p>23 product that's already on the market. And I understand</p> <p>24 you're not a regulator and there's more to it than just</p> <p>25 that, so I don't want to mislead you.</p>
<p style="text-align: center;">Page 87</p> <p>1 mesh that I'm aware of.</p> <p>2 Q. Are there any differences with regards to</p> <p>3 how the product is implanted between the TTVT-S, the Secur</p> <p>4 device, and the TTVT-R and the TTVT-O?</p> <p>5 A. Yeah, there's a difference in the way it's</p> <p>6 implanted.</p> <p>7 Q. And what is that difference?</p> <p>8 A. The TTVT-Secur is a single incision sling,</p> <p>9 whereas the TTVT-O and the TTVT retropubic had an exit point.</p> <p>10 The Secur did not.</p> <p>11 Q. And are you familiar or did you read</p> <p>12 any -- have you read anything, whether it be internal</p> <p>13 documents or studies, that suggests whether or not the</p> <p>14 TTVT-Secur device initially was rejected because of the</p> <p>15 dissimilarity between the two devices that were used</p> <p>16 originally for the predicate device to where they had to</p> <p>17 add another predicate device in order for it to come on the</p> <p>18 market?</p> <p>19 MR. WALKER: Object to form.</p> <p>20 A. I can't recall that.</p> <p>21 Q. So your understanding of the 510(k)</p> <p>22 process, the only thing that a manufacturer has to do is to</p> <p>23 show that it's substantially similar to a device that's</p> <p>24 already on the market. Is that your understanding of what</p> <p>25 that process involves?</p>	<p style="text-align: center;">Page 89</p> <p>1 My point is, if you're relying on a</p> <p>2 product you're saying is substantially similar to a product</p> <p>3 you're putting on the market and you're going to rely on</p> <p>4 the data that was used in bringing that predicate device to</p> <p>5 market, shouldn't that data apply equally across the board</p> <p>6 to the product that you're bringing on?</p> <p>7 A. So the predicate device that you're</p> <p>8 discussing, what exactly are you describing as a predicate</p> <p>9 device? The device that's in question?</p> <p>10 Q. No, sir. The predicate device would be</p> <p>11 the TTVT and TTVT-O, which were initially the predicate</p> <p>12 devices.</p> <p>13 A. I understand what you're saying now.</p> <p>14 Q. So in order for Ethicon to rely on the</p> <p>15 data from the TTVT device, then that product needs to be</p> <p>16 substantially similar to the TTVT device. Do you agree?</p> <p>17 MR. WALKER: Object to form.</p> <p>18 A. Needs to have the same use, yes. If</p> <p>19 you're trying to say that what was on the market for --</p> <p>20 well, again, I don't know all the regulations about this,</p> <p>21 but it would seem to me that that would be a -- there's so</p> <p>22 many small variations of something, if you had to go</p> <p>23 through the whole process every time, that would be very</p> <p>24 cumbersome for the FDA. So I'm assuming that the FDA had</p> <p>25 to make some type of provision to allow like devices to be</p>

Page 90	Page 92
<p>1 brought to market.</p> <p>2 Now, you know, we're talking about</p> <p>3 suburethral and midurethral slings. We're not talking</p> <p>4 about apples and oranges. We're talking about the same</p> <p>5 type of device. So I guess in my estimation, yes, it is</p> <p>6 based on what was on there before, which was, again, the</p> <p>7 same type of mesh, the same placement of the mesh, the same</p> <p>8 position of the mesh. But other than that, I don't know</p> <p>9 what the FDA's regulations are about that.</p> <p>10 Q. Maybe this will help just slightly and it</p> <p>11 may not.</p> <p>12 A. All right. Good.</p> <p>13 Q. I'll do my best. The TVT-S device was</p> <p>14 smaller than the other two devices; is that right?</p> <p>15 A. Yes, ma'am.</p> <p>16 Q. And the TTV-S device was stiffer than the</p> <p>17 other two devices. Would you agree with that?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 A. No.</p> <p>20 Q. The mesh itself was not in any way stiffer</p> <p>21 than the other two devices?</p> <p>22 A. I couldn't tell any difference.</p> <p>23 Q. The TTV-S had anchors that were made of a</p> <p>24 degradable substance where it attached to the body instead</p> <p>25 of being left open.</p>	<p>1 A. Did I review records of that? There were</p> <p>2 internal memos having that conversation, or something of</p> <p>3 that nature.</p> <p>4 Q. And those were Ethicon's own internal</p> <p>5 communications?</p> <p>6 A. I don't remember exactly. I'm assuming</p> <p>7 so. I don't remember.</p> <p>8 Q. Do you recall any testimony as to whether</p> <p>9 or not -- whether it was Ethicon employees or Ethicon</p> <p>10 experts that suggested that the product should have been</p> <p>11 studied or should have had more testing done before it was</p> <p>12 brought to the market?</p> <p>13 MR. WALKER: Object to form.</p> <p>14 A. So I don't recall the specifics. I do</p> <p>15 remember that there was some internal conversations about</p> <p>16 that, but I don't know who it was that had the</p> <p>17 conversations. I don't recall any of the details.</p> <p>18 Q. And do you recall any studies that</p> <p>19 suggested that more data was needed on the TTV-S device</p> <p>20 before it came to the market?</p> <p>21 A. I don't remember that either. I don't</p> <p>22 know that there was -- I know they did testing before just</p> <p>23 to determine strength and how much was needed to -- how to</p> <p>24 put the Secur in, but that wasn't done on humans. But I</p> <p>25 don't recall there being a study or a conversation or</p>
<p style="text-align: center;">Page 91</p> <p>1 A. Yes, ma'am, that's correct.</p> <p>2 Q. And the insertion tools that were used</p> <p>3 were different than the procedures that were used to insert</p> <p>4 the other two devices. Is that fair?</p> <p>5 A. That's correct, ma'am.</p> <p>6 Q. Do you have any opinion whether or not</p> <p>7 those differences made it necessary that the device should</p> <p>8 be studied in a different way to see if those differences</p> <p>9 had any impact on outcomes before the product was brought</p> <p>10 to the market?</p> <p>11 A. Yeah, I mean, I thought about that. And</p> <p>12 that's been part of my -- when we were going through all</p> <p>13 this, I did think about that. But I really don't know</p> <p>14 enough about the regulations to give an opinion. And from</p> <p>15 a clinical standpoint, if the device has been shown to be</p> <p>16 safe -- there may be little differences in effectiveness,</p> <p>17 but if it's been shown to be safe, then I don't know that</p> <p>18 you really need other studies other than what's already</p> <p>19 been out there.</p> <p>20 Q. Have you read any literature or any</p> <p>21 internal documents, any of the reliance materials that you</p> <p>22 reference, in formulating the opinions in your report? Do</p> <p>23 you recall reviewing anything that suggested that the</p> <p>24 TTV-Secur device should have been studied more before it</p> <p>25 was brought to the market?</p>	<p style="text-align: center;">Page 93</p> <p>1 mandate or FDA went back and said we need more data. I</p> <p>2 just assume that once they got to the FDA point and it was</p> <p>3 approved that that was adequate.</p> <p>4 Q. You mentioned in this section the fact</p> <p>5 that there was a steeper learning curve initially. What</p> <p>6 did you mean by that?</p> <p>7 A. Well, with the TTV retropubic and the</p> <p>8 TTV-O, the name stands for tension-free vaginal tape. So</p> <p>9 from the first two that were placed, that was the -- the</p> <p>10 standard was to place it tension-free underneath the</p> <p>11 urethra. With the Secur, because of the way that you could</p> <p>12 either place it in a hammock or U-shape, there's a little</p> <p>13 bit of a different technique there implanting that. And</p> <p>14 then also knowing that you needed to place it more firmly</p> <p>15 and securely up underneath the bone into the ligament.</p> <p>16 Yeah, I mean, those are the things that</p> <p>17 initially when I started doing the Secur that I found were</p> <p>18 a little bit different, but it took all of about five to</p> <p>19 figure out how that worked.</p> <p>20 Q. Did you read any materials in your review</p> <p>21 for this report that suggested some doctors, the learning</p> <p>22 curve required more attempts?</p> <p>23 A. I believe so, yes.</p> <p>24 Q. And do you have an opinion as to whether</p> <p>25 or not a company that develops a new procedure with a new</p>

Page 94	Page 96
<p>1 product has any obligation to properly train the doctors 2 using that product before their product is made available 3 to them to use in the patients?</p> <p>4 MR. WALKER: Object to form.</p> <p>5 A. So, yes. So in order for a new product to 6 be utilized correctly, you need another little -- you need 7 to know the steps, right? And that's what the proctor was 8 to provide to the new physicians. And the technique needed 9 to be modified based on the product. All the slings are a 10 little bit different. I mean the Altis is different than 11 the TVT versus the retropubic versus obturator versus the 12 Monarc. They are all a little bit different, so those 13 little nuances do need to be relayed to the physician.</p> <p>14 Q. And you agree that each of these devices 15 that we're talking about, they are not just the device, 16 they are also the toolkits for implanting the device that's 17 part of the package that you get when you go to use these 18 devices. Is that true?</p> <p>19 A. The device and the toolkit are what now?</p> <p>20 Q. It's part of the package that you receive. 21 It's not just the sling materials --</p> <p>22 A. In the operating room you're saying?</p> <p>23 Q. Sure.</p> <p>24 A. So in the operating room, on the back 25 table the device is opened. Yeah, so the sling and then</p>	<p>1 weren't sterilized and reused. So each kit had an 2 individual trocar.</p> <p>3 Q. And other than the sling -- and I know you 4 said you don't do POP procedures, but other than those type 5 procedures, is a trocar something you use in your normal 6 practice in any other procedures?</p> <p>7 A. Yes.</p> <p>8 Q. What type of procedures?</p> <p>9 A. Interstim, and there's a trocar that 10 passes the wire or the lead underneath the skin from the 11 sacrum over to the battery site.</p> <p>12 Q. Is that something that's supplied with the 13 Interstim device as well?</p> <p>14 A. Yes.</p> <p>15 Q. Now, do you train others how to implant 16 these devices?</p> <p>17 A. I do.</p> <p>18 Q. And by that I meant the TVT devices, the 19 TVT-Secur, the TVT retropubic.</p> <p>20 A. No, I do not.</p> <p>21 Q. Are you holding any opinions here today as 22 to whether or not Ethicon's training materials and 23 professional education were adequate with regard to the 24 TVT-O and the TVT-S devices that we're here today about?</p> <p>25 A. Yes.</p>
<p style="text-align: center;">Page 95</p> <p>1 anything else that goes with it to implant it.</p> <p>2 Q. So you don't use your own tools to implant 3 the sling?</p> <p>4 A. Sometimes. Yeah, in the Secur because you 5 had to use a needle driver.</p> <p>6 Q. And that's something that you weren't 7 supplied with by the company?</p> <p>8 A. Huh-uh.</p> <p>9 Q. And that was part of the instruction that 10 you received in training for the device?</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. But for the most part, with regards to the 13 TVT retropubic and the TVT obturator, you didn't utilize 14 your own tools to implant those devices?</p> <p>15 A. Well, I had to have a scalpel and pick-ups 16 and sutures, So there's -- I just couldn't use what they 17 brought me. I had to use other things for surgery. I 18 mean, it is a part of the surgery.</p> <p>19 Q. But as far as the trocars and --</p> <p>20 A. The trocars were included.</p> <p>21 Q. -- and the cannulas, those --</p> <p>22 A. Those were not -- I'm sorry. I cut you 23 off, ma'am.</p> <p>24 Q. That's okay.</p> <p>25 A. The trocars were single-time use. So they</p>	<p style="text-align: center;">Page 97</p> <p>1 Q. And what are those opinions?</p> <p>2 A. They were adequate.</p> <p>3 Q. And did you review all of the materials, 4 the professional education materials, within Ethicon in 5 formulating that opinion?</p> <p>6 A. That's part of it, yes, ma'am.</p> <p>7 Q. Did you also review internal materials 8 with regards to the development of the procedure as it was 9 laid out in the IFU?</p> <p>10 A. I'm not sure I'm following on that. 11 Because what I thought you were meaning was as a surgeon 12 operating on a patient, do you rely on the professional 13 handouts. And so for that I agree. But as a clinician and 14 a surgeon, you wouldn't have privy to those other 15 documents. If you're asking as an expert witness if I'm 16 relying on those things, that's different than just me 17 being a surgeon and operating.</p> <p>18 Q. I guess that's where I was going with 19 that. Are you holding any opinions today with regards to 20 the materials that were used to train doctors as to whether 21 that information, those materials, were adequate in this 22 case?</p> <p>23 A. Yes.</p> <p>24 Q. You do have opinions, and that's based off 25 of --</p>

Page 98	Page 100
<p>1 A. That's based off everything I saw.</p> <p>2 Q. So that would include the materials, the</p> <p>3 internal Ethicon documents --</p> <p>4 A. Uh-huh.</p> <p>5 Q. -- and all the training materials</p> <p>6 associated with the device?</p> <p>7 A. Yes, ma'am.</p> <p>8 Q. And you've read all of them?</p> <p>9 A. I think so, but I couldn't -- I don't know</p> <p>10 that I've seen every one of them, but all the ones that I</p> <p>11 saw I think I looked at and read.</p> <p>12 Q. And have you heard of -- have you seen</p> <p>13 what is referred to as a cookbook with regards to the</p> <p>14 TTV-S?</p> <p>15 A. Cookbook?</p> <p>16 Q. In the materials you reviewed, did</p> <p>17 anything --</p> <p>18 A. Well, maybe it's the same thing I'm</p> <p>19 thinking of. But it was kind of like there are like Tips &</p> <p>20 Tricks? Yeah, I do remember seeing that.</p> <p>21 Q. Do you recall whether or not the Tips &</p> <p>22 Tricks were similar to the instructions that were included</p> <p>23 in the original IFU, the instructions for use?</p> <p>24 A. I believe the Tips & Tricks came out later</p> <p>25 to help speed up the learning curve.</p>	<p>1 different recommendation in the Tips & Tricks, would you</p> <p>2 expect that to be something that they would make sure that</p> <p>3 all physicians were aware of by changing the IFU or</p> <p>4 advising them, or do you think that every physician was</p> <p>5 given the opportunity to have the benefit of the Tips &</p> <p>6 Tricks?</p> <p>7 MR. WALKER: Object to form.</p> <p>8 A. So to answer your question, so if I was to</p> <p>9 make an incision that wasn't large enough to accommodate</p> <p>10 the tip of a trocar, I'd have to enlarge that incision</p> <p>11 anyway. So I think that was a step that was taken from</p> <p>12 a -- just to complete things. But from a practical</p> <p>13 standpoint, when you're inserting the sling in place, it</p> <p>14 wouldn't take very long to realize that you had to make a</p> <p>15 little bit bigger incision than you would with the TTV</p> <p>16 retropubic or TTV-O.</p> <p>17 So whether that was necessary and needed</p> <p>18 to be transmitted to the surgeons, maybe, but in all</p> <p>19 reality, that was something that was happening already</p> <p>20 because it had to happen.</p> <p>21 Q. Okay. Right after that section we were</p> <p>22 just discussing, you start the sentence, "When compared to</p> <p>23 a retropubic TTV, there were some studies suggesting" --</p> <p>24 A. Ma'am, can I stop you for a second?</p> <p>25 Q. Sure.</p>
<p style="text-align: center;">Page 99</p> <p>1 Q. Do you have any understanding as to</p> <p>2 whether or not the Tips & Tricks were put through the FDA</p> <p>3 process for approval for use with the device?</p> <p>4 A. I don't know that.</p> <p>5 Q. And do you have any understanding or</p> <p>6 opinion as to whether or not the Tips & Tricks differed</p> <p>7 substantially from the IFU?</p> <p>8 A. Substantially? No. I think there were</p> <p>9 some nuance things that after performing it a few times</p> <p>10 that were obvious that were included on that.</p> <p>11 Q. For instance, with regards to the</p> <p>12 dissection, are you familiar with the recommended</p> <p>13 dissection length included in the IFU versus the dissection</p> <p>14 that was discussed in the Tips & Tricks?</p> <p>15 A. Well, no. I remember 1.5 centimeters.</p> <p>16 Now, nobody gets a ruler and makes a 1.5 centimeter mark on</p> <p>17 the urethra. So it's all kind of an eyeball idea anyway.</p> <p>18 It may be two centimeters. It may be one centimeter. But</p> <p>19 that part of things, I don't -- I think of all this -- the</p> <p>20 idea behind it is to make an incision large enough for the</p> <p>21 Secur to lay down. And I think that was relayed to the</p> <p>22 physicians.</p> <p>23 Q. So if Ethicon were telling physicians</p> <p>24 early on that a smaller incision was okay and then found</p> <p>25 out that that was not actually the case and provided a</p>	<p style="text-align: center;">Page 101</p> <p>1 A. What page are you on?</p> <p>2 Q. I'm still on page 7, and it's below the</p> <p>3 section we were just -- it's actually continuing of the</p> <p>4 paragraph we were just starting, and the part I'm focusing</p> <p>5 on --</p> <p>6 A. "When compared to a retropubic TTV"?</p> <p>7 Q. Yes. And what I'm trying to understand is</p> <p>8 you said -- at one point in the sentence you said "but if</p> <p>9 it had been invented first would have been a revolutionary</p> <p>10 improvement over the Burch." Can you explain that section</p> <p>11 for me?</p> <p>12 A. Right. So in my estimation, and the way</p> <p>13 the literature bears out, is that we had this progression</p> <p>14 of the way things went was Burch, pubovaginal sling, bone</p> <p>15 anchor for a time period there, which had its -- definitely</p> <p>16 it worked, but we were seeing some -- a lot of patients who</p> <p>17 were having problems with those or were developing quickly</p> <p>18 recurring incontinence.</p> <p>19 And so when we went from here to the TTV</p> <p>20 retropubic, which was here, we saw -- in my estimation and</p> <p>21 based on the literature, there was a significant jump in</p> <p>22 the efficacy and a decrease in the morbidity. The</p> <p>23 procedure itself took 15 minutes versus before maybe an</p> <p>24 hour or two, having multiple incisions for a pubovaginal</p> <p>25 sling. So these people who were in the hospital, they were</p>

Page 102	Page 104
<p>1 going home. So we saw this change in the Burch and other 2 things to the TVT.</p> <p>3 If the TTV-Secur had been the first thing 4 invented, we still would have seen an improvement over what 5 we were dealing with, right? It would have been here. And 6 that aspect of things would have been looked at as, wow, 7 this is significantly better than what we have been dealing 8 with. And it still is, in my estimation, and has been 9 shown to be, better than what we were dealing with. But 10 because these other things were -- already had been on the 11 market, the one thing that Secur had an issue with was 12 initially some efficacy. And that, I think, over time 13 has -- and experience by the physicians has really changed, 14 or did change, but initially there was this small decrease 15 in efficacy versus the TTV retroperitoneal and the TTV-O. But 16 if that would have been invented first, it would have been 17 felt like it was a milestone win.</p> <p>18 Q. What is your understanding of the reason 19 that the TTV-S device was removed or was no longer 20 available for use?</p> <p>21 A. Why? I think there were a few things that 22 went into it, but I think a lot of it was they just didn't 23 want to continue to -- well, I don't know all the details 24 of it. I don't know all the details why the company pulled 25 it. I think that they decided internally to do that versus</p>	<p>1 there's a different process of having to kind of re-go 2 through all those steps of getting the product to the 3 market.</p> <p>4 Q. And these would be the same type of 5 testing that would be required if you were going to bring 6 another product on the market similar to the one that was 7 removed. Would you agree with that?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. So you're asking me if that's the same 10 process that occurs if a new product is coming to market?</p> <p>11 Q. I guess what I'm asking you is the studies 12 that they are being asked to do to prove the safety and 13 efficacy of the TTV-S device in order for it to stay on the 14 market would be similar to the same studies that they would 15 need to do to bring a similar device back to market to 16 replace the TTV-S.</p> <p>17 MR. WALKER: The same objection.</p> <p>18 A. I don't know.</p> <p>19 Q. And that's a fine answer. I'm not trying 20 to pressure you. I'm just wondering if you do know, if you 21 knew whether or not that was the case.</p> <p>22 Okay. Let's see. All right. If you'll 23 look down to that next paragraph. I'm actually looking 24 towards the latter part of the sentence where you start -- 25 where you're talking about studies that were done today,</p>
<p style="text-align: center;">Page 103</p> <p>1 continue to try to do studies to prove it was effective.</p> <p>2 Q. And do you know if the company is 3 currently looking to replace any of those products and 4 currently conducting studies to develop any new products?</p> <p>5 MR. WALKER: I'm sorry. Could you repeat 6 the question?</p> <p>7 (Thereupon the question was read back by 8 the court reporter.)</p> <p>9 MR. WALKER: I just wanted to clarify. 10 What did you mean by "those products"?</p> <p>11 BY MS. BAGGETT:</p> <p>12 Q. Well, TTV-Secur, for example. The fact 13 that it's no longer available on the market, do you have 14 any knowledge or understanding of whether or not Ethicon is 15 currently working on a device to replace that product?</p> <p>16 A. I have no idea.</p> <p>17 Q. And based on the fact that -- or were you 18 aware that the FDA was making a requirement that they 19 conduct additional studies on TTV-S in order for it to 20 remain on the market?</p> <p>21 A. I was aware of that.</p> <p>22 Q. And you know that they were issued a 522 23 order, and you know what that is?</p> <p>24 A. Vaguely, but I couldn't spit it off for 25 you. I couldn't name it exactly, but I have an idea that</p>	<p style="text-align: center;">Page 105</p> <p>1 and in the past and in the future that may be important to 2 a chemist, biologist, or physician, and then you go into a 3 discussion with regards to these. And I think you meant 4 MSDS.</p> <p>5 A. Yes.</p> <p>6 Q. For polypropylene suture by Dupont, and 7 that discusses the fact that it suggests a sarcoma was seen 8 in a rodent and perceived to be associated with the 9 polypropylene suture. Can you tell me what you meant by 10 that, that discussion?</p> <p>11 A. Well, there was a document that I reviewed 12 that had one case of a sarcoma in a rodent. The 13 correlation was that that could be associated with a 14 polypropylene suture. And what my point was, was that that 15 in and of itself, if you were to tell everybody in the 16 world that this happened, you would get a different -- 17 there would be a different perspective than if you said 18 millions of people have polypropylene sutures in them and 19 none have been reported in the studies to have a sarcoma 20 associated with it. That's a different set of information.</p> <p>21 And in my estimation, and based on the 22 data out there, you can't take individual things that in 23 and of itself seem to be applicable to one situation and 24 apply it to a different situation and compare them and say 25 they are comparative. You have to know -- take that</p>

Page 106	Page 108
<p>1 information as adequate, but in reality has no clinical 2 value. That's what I mean. There's other things that 3 happen like that -- in all of medicine that can't be 4 compared, or apply little clinical value data.</p> <p>5 Q. Would you agree that if a concern is 6 raised by the manufacturer of the polypropylene, that you 7 would expect that it would be something that would be 8 studied before it was used in human applications?</p> <p>9 MR. WALKER: Object to form.</p> <p>10 A. Would you rephrase that?</p> <p>11 Q. If a concern was raised by the 12 manufacturer of the actual polypropylene with regards to 13 the use of that material in a medical environment, would 14 you expect Ethicon to at least investigate that concern 15 before using that product in a device that would be 16 permanently implanted in a human body?</p> <p>17 A. Would I expect them to? I think that 18 that's -- in this particular situation, no, because there 19 have been, like I said, thousands and thousands and 20 thousands of polypropylene suture placed without any 21 evidence of causing sarcomas.</p> <p>22 I do think that if a manufacturer notices 23 there's a problem, they should alert their distributors or 24 people who use their product. Then it's up to the -- you 25 know, based on that, you can interpret it through the scope</p>	<p>1 It may be what it's intended use is for. I mean, a whole 2 host of -- how it's woven together. I mean, to say the 3 volume of a suture would automatically increase the rate of 4 X, Y or Z, unless there's a study on that to let me look at 5 that, I can't say for sure.</p> <p>6 Q. And that's kind of where I was heading 7 with it.</p> <p>8 The more foreign body material that is 9 introduced into the human body, the more the human body is 10 going to respond to it. Would you agree with that?</p> <p>11 MR. WALKER: Object to form.</p> <p>12 A. No, I don't agree with that.</p> <p>13 Q. So if you have a small splinter in your 14 finger and your body responds with an inflammatory 15 response, is that response going to be greater the bigger 16 the splinter is?</p> <p>17 A. Well, the whole site is bigger because the 18 splinter is bigger, but the actual amount of reaction may 19 be the same. It may just appear bigger because the 20 splinter is bigger.</p> <p>21 Q. I guess my point is, the bigger surface 22 area means more foreign body present to respond to. Would 23 that --</p> <p>24 A. I would agree.</p> <p>25 Q. So the bigger the piece of material is in</p>
<p style="text-align: center;">Page 107</p> <p>1 or -- you can view it through the scope of a clinician, but 2 the clinician's viewpoint is going to be different than the 3 engineer's viewpoint. It's going to be different from the 4 manufacturer's viewpoint.</p> <p>5 Q. And you mentioned something about the fact 6 that thousands and thousands of sutures have been used in 7 different applications.</p> <p>8 Are you familiar with the amount of suture 9 material that is required to comprise the mesh used in the 10 devices we're here today about, the TTV, TTV-O, and the 11 TTV-Secur?</p> <p>12 A. The amount of the prolene suture?</p> <p>13 Q. Material.</p> <p>14 A. I know the weight and I know the -- but I 15 don't know the actual volume of suture that is placed in a 16 sling.</p> <p>17 Q. Would you expect the amount of exposure to 18 a product can have a direct correlation to a different 19 outcome when compared to a smaller amount? You take a 20 single suture versus a larger area of the suture, would you 21 expect the reaction in the human body to be the same?</p> <p>22 A. There's no way for me to know that. I 23 mean, that's a pretty big jump to be able to say that. I 24 think that it's not necessarily the volume of the suture. 25 It may be where it's placed. It may be how much is placed.</p>	<p style="text-align: center;">Page 109</p> <p>1 the body, the more the body is going to have to respond to 2 address that foreign body. Would you agree with that?</p> <p>3 A. I agree that the larger surface area, 4 there's more contact with the tissue, but the actual amount 5 of reaction doesn't increase in that specific spot for that 6 particular piece of mesh or prolene or whatever foreign 7 body we're talking about.</p> <p>8 Q. And with regards to the -- you were 9 discussing the difference in mesh weaves and the size. Do 10 you have any understanding of how the porosity of a device 11 affects the surface area that comes in contact with the 12 body?</p> <p>13 A. Yes.</p> <p>14 Q. What is that understanding?</p> <p>15 A. That anything bigger than 75 microns is a 16 large enough pore size to allow ingrowth of fibroblast and 17 macrophages and the normal healing that you'd see.</p> <p>18 Q. Have you reviewed materials with regards 19 to the pore size in the devices we're talking about today?</p> <p>20 A. Yes.</p> <p>21 Q. What materials did you review to get your 22 understanding of the pore size in the TTV-R, the TTV-O and 23 the TTV-S devices?</p> <p>24 A. I don't remember the name of the document. 25 I don't recall the name, but I know I looked at it multiple</p>

Page 110	Page 112
<p>1 times.</p> <p>2 Q. What is your understanding of the porosity</p> <p>3 of the TVT-R, the TVT-O and the TVT-S devices?</p> <p>4 A. Those are all 1.37 microns; 1,379 microns.</p> <p>5 I'm sorry.</p> <p>6 Q. Are you familiar with the term "effective</p> <p>7 porosity"?</p> <p>8 A. Not specifically.</p> <p>9 Q. Do you -- in your experience with the</p> <p>10 meshes that you've implanted, you understand that the mesh</p> <p>11 is flexible, correct?</p> <p>12 A. I agree.</p> <p>13 Q. And that it stretches. It's elastic in</p> <p>14 some aspects. Is that true?</p> <p>15 A. It is.</p> <p>16 Q. Do you have an understanding of whether or</p> <p>17 not stretching the material changes the porosity?</p> <p>18 A. If I took the mesh and I pulled it like</p> <p>19 this, would it change the form, the size of the pores?</p> <p>20 Q. Yes, sir.</p> <p>21 A. I would expect so.</p> <p>22 Q. Do you have an understanding of whether or</p> <p>23 not the mesh -- once it has been stretched or put under</p> <p>24 tension, whether or not the mesh regains the original pore</p> <p>25 size or if it remains collapsed?</p>	<p>1 A. No, I do not have like a number of newtons</p> <p>2 of cavity that pulls on there. I do know that it's nothing</p> <p>3 that would be significant enough to change the size of the</p> <p>4 mesh, because the mesh itself when removed has no real</p> <p>5 changes in its visible properties.</p> <p>6 Q. And that's your understanding, that the</p> <p>7 mesh pores remain constant after insertion?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. I think the pores can change minimally,</p> <p>10 but nothing of any substance. And that's due to mainly,</p> <p>11 probably, from the actual healing process itself. You</p> <p>12 know, once the healing process starts, then you see</p> <p>13 probably a -- you know, it gets to a certain point and it's</p> <p>14 not going to change at all.</p> <p>15 Q. But before the healing process starts, do</p> <p>16 you have an understanding of whether or not the mere fact</p> <p>17 that a woman standing up or having a body function and</p> <p>18 putting tension on the mesh, if that has any effect on the</p> <p>19 porosity before the tissue has a chance to get incorporated</p> <p>20 into the mesh?</p> <p>21 MR. WALKER: Object to form.</p> <p>22 A. It's my understanding that that's not</p> <p>23 enough physiologic force to change any -- have any</p> <p>24 long-term change in the mesh.</p> <p>25 Q. And you said earlier the prolene mesh --</p>
<p style="text-align: center;">Page 111</p> <p>1 MR. WALKER: Object to form.</p> <p>2 A. I don't know specifically, but I would</p> <p>3 think if it hits a certain threshold, it would probably not</p> <p>4 regain its form.</p> <p>5 Q. Would that be important with regard to</p> <p>6 tissue ingrowth once the device is implanted?</p> <p>7 A. No.</p> <p>8 Q. It would not?</p> <p>9 A. The reason being, is there is no</p> <p>10 physiologic force that can stretch that material in a way</p> <p>11 that it can't be -- there's no force that can stretch that</p> <p>12 material that it would change the pore size of any</p> <p>13 significance.</p> <p>14 Q. Do you agree that when the mesh is placed</p> <p>15 initially in the body that the woman is usually in a</p> <p>16 position where she is laying down to where there's no</p> <p>17 tension on the mesh with regards to the organs that it's</p> <p>18 supporting, the lithotomy position?</p> <p>19 A. The lithotomy position. That's the normal</p> <p>20 position to place it, yeah.</p> <p>21 Q. Does the tension that is placed on the</p> <p>22 mesh change when the woman stands up?</p> <p>23 A. Ever so slightly.</p> <p>24 Q. And by "ever so slightly," do you have an</p> <p>25 understanding of how much it changes?</p>	<p style="text-align: center;">Page 113</p> <p>1 do you know what the different categories of porosity are</p> <p>2 with regard to the mesh devices? Have you heard of the</p> <p>3 term "microporous"?</p> <p>4 A. Yes. I've seen studies on type I, II,</p> <p>5 III, and IV mesh.</p> <p>6 Q. And which category do you put the prolene</p> <p>7 mesh that's used in the devices we're talking about today?</p> <p>8 Which category does that fall under?</p> <p>9 A. I believe that's type I, macroporous mesh.</p> <p>10 Q. And do you have an understanding of</p> <p>11 whether or not the mesh used in the prolene mesh -- do you</p> <p>12 have an understanding of whether or not the prolene mesh</p> <p>13 that's used in the devices we're here to talk about today,</p> <p>14 whether or not that is considered heavyweight or</p> <p>15 lightweight mesh?</p> <p>16 A. Well, describe heavyweight and lightweight</p> <p>17 to me. I think the weight is dependent upon how you're</p> <p>18 placing it, how you're utilizing that within the body. So</p> <p>19 I think the definitions I've seen, different definitions, I</p> <p>20 don't think there's a consensus on that. I think that's</p> <p>21 kind of a -- I can't find literature that would say this is</p> <p>22 a consensus, heavyweight, lightweight. But in reality, the</p> <p>23 amount of weight is pretty minimal when you're actually</p> <p>24 placing it underneath the urethra. I really can't comment</p> <p>25 on heavyweight and lightweight. My suspicion is that it's</p>

Page 114	Page 116
<p>1 the appropriate weight.</p> <p>2 Q. Are you aware of any concerns, either</p> <p>3 through the literature or within the medical community,</p> <p>4 that the heavier weight meshes, the more complications you</p> <p>5 see? Are you aware of anything like that, or the</p> <p>6 difference between a macroporous versus a microporous mesh</p> <p>7 and the outcomes?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. I think you're asking me two different</p> <p>10 things, because a macroporous mesh and a microporous mesh,</p> <p>11 I think there's studies on there as far as how the patient</p> <p>12 heals. As far as heavyweight and lightweight mesh, that's</p> <p>13 more of an arbitrary discussion and, again, one that I</p> <p>14 think falls short when it talks about midurethral slings.</p> <p>15 I think that's helpful maybe when you're</p> <p>16 talking about hernia repairs or big pieces of mesh that are</p> <p>17 placed, but when we're talking about such a small area --</p> <p>18 and I've done the math on it. I looked at all the</p> <p>19 different slings and tried to figure what actual weight</p> <p>20 you're actually seeing when you place it under the</p> <p>21 midurethra, and there's very significant little difference.</p> <p>22 I mean, there's minuscule, you know, micrograms of</p> <p>23 difference when you actually get that piece of mesh and</p> <p>24 determine the weight and then the length of all the</p> <p>25 different ones.</p>	<p>1 that the TVT retropubic or TVT-O or TVT-Secur was done in</p> <p>2 order to get results that are comparable. And I don't know</p> <p>3 those.</p> <p>4 Q. Are you familiar with the pelvic organ</p> <p>5 prolapse devices that were manufactured by Ethicon?</p> <p>6 A. I know they exist, and that's about the</p> <p>7 end of my knowledge.</p> <p>8 Q. So you're not aware of what type of mesh</p> <p>9 is used in those products versus the stress urinary</p> <p>10 incontinence device?</p> <p>11 A. I think along the way somewhere I may have</p> <p>12 heard there's a different mesh, but I don't know a lot of</p> <p>13 the details because I never implanted those.</p> <p>14 Q. So if the mesh that was used in the pelvic</p> <p>15 organ prolapse devices was lighter weight and larger pore,</p> <p>16 would you expect the mesh being used in all of their</p> <p>17 products to be changed in order to obtain the best possible</p> <p>18 outcomes for their patients?</p> <p>19 MR. WALKER: Object to form.</p> <p>20 A. I think that's an assumption that you're</p> <p>21 saying that that same mesh would provide the same function</p> <p>22 and efficacy when used for a sling. So I don't know that,</p> <p>23 again, you can compare the mesh for that product versus the</p> <p>24 mesh for a sling product unless you had, you know,</p> <p>25 countless number of patients to compare it. I mean, just</p>
<p>1 So I'm not -- it's not the heaviest</p> <p>2 weight, it's not the lightest weight, but it's the</p> <p>3 appropriate weight to do what it does.</p> <p>4 Q. Are you familiar with internal documents</p> <p>5 within Ethicon that discuss the need for a lighter weight,</p> <p>6 larger pore mesh?</p> <p>7 MR. WALKER: Object to form.</p> <p>8 A. Uh-huh.</p> <p>9 Q. And are you familiar with the devices that</p> <p>10 were developed -- or excuse me -- the mesh material that</p> <p>11 was developed in an attempt to obtain a lighter weight,</p> <p>12 larger pore mesh for use in the application similar to the</p> <p>13 devices we're here to talk about today?</p> <p>14 MR. WALKER: Object to form.</p> <p>15 A. I've seen documents on different types of</p> <p>16 meshes used from internal documents from Ethicon.</p> <p>17 Q. And if there were studies that suggest</p> <p>18 that a lighter weight, larger pore mesh resulted in safer</p> <p>19 and better outcomes, would you expect the company to use</p> <p>20 that mesh if it's available to them?</p> <p>21 MR. WALKER: Object to form.</p> <p>22 A. Well, you're asking me a hypothetical</p> <p>23 question, correct? Because that device doesn't exist, or</p> <p>24 that mesh, that I'm aware of, doesn't exist. So any</p> <p>25 studies on that would have to be done in the same exact way</p>	<p>1 because it does the job for one particular problem, I don't</p> <p>2 think you can just assume it's going to be effective in the</p> <p>3 same -- for a sling.</p> <p>4 Q. Would that also be true with regards to</p> <p>5 the use of hernia mesh in the abdomen versus hernia mesh in</p> <p>6 the pelvis?</p> <p>7 A. Yeah, that's the same thing. Until you</p> <p>8 get studies that show it's effective and safe, then I think</p> <p>9 you should always, you know, make sure you're wary of any</p> <p>10 type of crossover utilization of products.</p> <p>11 Q. In the section on page 8 under</p> <p>12 Tension-Free Vaginal Tape, the second paragraph, mid</p> <p>13 paragraph, you talk about prolene sutures being composed of</p> <p>14 polypropylene. They contain antioxidants to prevent the</p> <p>15 polymer degradation.</p> <p>16 In that section, are you saying that you</p> <p>17 have an understanding as to whether or not polypropylene</p> <p>18 can degrade?</p> <p>19 A. I don't know all the details of why the</p> <p>20 antioxidants are put in there. I think that, you know, as</p> <p>21 we discussed earlier, there's nothing that proves that</p> <p>22 prolene dissolves. Could there be some things that can</p> <p>23 help it stay sturdier and stronger? Possibly the</p> <p>24 antioxidants. Again, I'm not a biochemist so I don't know</p> <p>25 the details of that. But I'm assuming it would just be</p>

Page 118	Page 120
<p>1 something to help continue to keep its strength.</p> <p>2 Q. Are you planning to offer any opinions in</p> <p>3 this case with regards to whether or not polypropylene used</p> <p>4 in the prolene devices that make up the products we're here</p> <p>5 to talk about today, whether or not that polypropylene</p> <p>6 degrades?</p> <p>7 MR. WALKER: Object to form.</p> <p>8 A. My opinion is that the prolene does not</p> <p>9 degrade. And so if you're asking me if I have an opinion</p> <p>10 about it, yes, I do. That's my opinion. If you're asking</p> <p>11 me from a biochemist's standpoint what occurs at the</p> <p>12 cellular level, molecular level, I can't tell you all that.</p> <p>13 I can just tell you from a clinician, having used prolene</p> <p>14 suture for many years, doing transplants and other things,</p> <p>15 that later, when we go back, the prolene mesh is still</p> <p>16 there. If it wasn't still there, there would be a lot of</p> <p>17 problems with the prolene -- I mean, the prolene suture,</p> <p>18 not the mesh -- but the prolene suture would be off the</p> <p>19 market. So in my estimation, there's no sign of any</p> <p>20 degradation of or loss of structure of the prolene sutures.</p> <p>21 Q. So based on that, is it fair to say that</p> <p>22 you will be basing your opinions off of your experience</p> <p>23 with the device rather than your understanding of the</p> <p>24 science behind the concept; is that correct?</p> <p>25 MR. WALKER: Object to form.</p>	<p>1 postmenopausal." Do you see where we are?</p> <p>2 A. Yes, ma'am.</p> <p>3 Q. Do you know if the studies that you</p> <p>4 reviewed, do they distinguish between the dyspareunia that</p> <p>5 is experienced by a woman prior to the surgery, or</p> <p>6 de novo that occurs after she has the device implanted or</p> <p>7 the procedure done?</p> <p>8 A. Yes, ma'am. The studies that I remember</p> <p>9 reviewing were from the '60s and '70s, and they were</p> <p>10 looking at overall complication rates after -- and I can't</p> <p>11 remember, but it was like a hysterectomy, Burch procedure,</p> <p>12 colposuspension. It wasn't one specific type of surgery.</p> <p>13 It was all vaginal surgery. And they didn't mention before</p> <p>14 and after. All right?</p> <p>15 So I don't know if it was -- we don't have</p> <p>16 that. What we do know is what the percentage of patients</p> <p>17 were after surgery that had a complaint of dyspareunia. We</p> <p>18 do know from a longitudinal standpoint there's a baseline</p> <p>19 number of patients who have dyspareunia who don't complain</p> <p>20 of it, don't share it with other people, but just suffer</p> <p>21 from it.</p> <p>22 Q. So I guess what I'm trying to understand</p> <p>23 from this section is, are you suggesting that the majority</p> <p>24 of women that have a procedure are experiencing dyspareunia</p> <p>25 prior to those procedures?</p>
<p style="text-align: center;">Page 119</p> <p>1 A. Can you be more specific how you ask that</p> <p>2 question? Are you asking me from a biochemical standpoint</p> <p>3 am I able to give you the composition of the prolene mesh?</p> <p>4 If you're asking me that, I can say I'm not here to comment</p> <p>5 on that. If you're asking me to say when that prolene mesh</p> <p>6 is outused in patients, what happens to it, does it degrade</p> <p>7 or not, I can certainly answer that without any hesitation.</p> <p>8 Q. I guess that's what I'm getting at. Have</p> <p>9 you reviewed anything in your preparation to draft a report</p> <p>10 in this case that gave you an understanding from a polymer</p> <p>11 standpoint whether or not the polypropylene used in this</p> <p>12 device is appropriate in this application?</p> <p>13 A. I can't comment from a biochemist's</p> <p>14 standpoint, so I will not provide any insight as far as how</p> <p>15 this thing is put together; only from a clinical</p> <p>16 standpoint.</p> <p>17 Q. In the section on page 9 under TVT</p> <p>18 Complications and Side Effects, you talk again about the</p> <p>19 literature and reviewing it to determine the risks and</p> <p>20 complications associated with all mesh procedures, and</p> <p>21 you've listed a couple of studies in this section.</p> <p>22 Specifically with regard to your discussion on dyspareunia,</p> <p>23 you suggest that "It's a well-known complication that can</p> <p>24 follow any vaginal surgery whether mesh is used or not. It</p> <p>25 is also prevalent among women, especially those that are</p>	<p style="text-align: center;">Page 121</p> <p>1 A. I can't comment on that, but I would say</p> <p>2 that not only in that study but in other studies, they do</p> <p>3 look at dyspareunia rates. And so there's a high -- not a</p> <p>4 high percentage, but there's certainly a percentage of</p> <p>5 patients who have dyspareunia rates just like -- well, I'll</p> <p>6 leave it at that.</p> <p>7 Q. Because I think you go into that more in</p> <p>8 the next paragraph where you talk about atrophic vaginitis</p> <p>9 occurs in postmenopausal woman can lead to vaginal dryness,</p> <p>10 cracking. But I guess what I'm trying to understand is</p> <p>11 that every woman that enters menopause, you're not</p> <p>12 suggesting that every woman who hits menopause</p> <p>13 automatically experiences dyspareunia?</p> <p>14 A. No.</p> <p>15 Q. And you mention that women don't always</p> <p>16 talk about dyspareunia and may not have talked about it</p> <p>17 before their procedure.</p> <p>18 Is it fair to say the same can be said</p> <p>19 about women after the procedure, maybe not talking about it</p> <p>20 at that point either? I mean, is that something that could</p> <p>21 be possible as well?</p> <p>22 MR. WALKER: Object to form.</p> <p>23 A. There's two possibilities with that. One</p> <p>24 possibility would be what you just mentioned. The second</p> <p>25 possibility was that they were having the dyspareunia</p>

Page 122	Page 124
<p>1 beforehand. So the studies, even after the years of the 2 midurethral slings, when they started looking at 3 dyspareunia rates, they don't necessarily comment on what 4 baseline of those patients had dyspareunia to begin with. 5 So there's two points of that that are a 6 little bit mysterious, is how many people are complaining 7 of it afterwards and they're saying -- or had the problem 8 and staying silent, and also how many people had it 9 beforehand that weren't discussed in the study before. 10 So it's possible. Yes, it's possible. 11 The rate of dyspareunia afterwards is possible. However, 12 in these studies they ask them specifically those 13 questions, if they're going to report them. They're asking 14 specifically for dyspareunia rates. So if they're trying 15 to get an idea about their adverse events and they have a 16 list of things that could happen, one of the checkboxes is 17 it could be dyspareunia, that's one of the things they're 18 going to report on. 19 Q. And are you saying that in the studies you 20 reviewed that the question was asked both before and after 21 the study was conducted? 22 A. I'm not suggesting that, because, like I 23 said, some of these people who had dyspareunia after the 24 surgery could have had dyspareunia before the surgery, both 25 before the use of midurethral slings and after the use of</p>	<p>1 discrepancy between what would be expected to be baseline 2 and a high rate. We are not seeing that so we can't assume 3 that in this situation. 4 Q. So in your review of the literature, 5 you're saying that the rate of the dyspareunia that comes 6 after the surgery is low? 7 A. Yes. 8 Q. And do you know, based on your review of 9 the literature, whether or not the dyspareunia remains 10 chronic and indefinite after the procedure or if it 11 improves after time passes? 12 MR. WALKER: Object to form. 13 A. They have done longitudinal studies on 14 them. I'd have to go back and review the literature to see 15 exactly. But it's in my mind that it tends to get a little 16 bit better, but not substantially better over time, unless 17 treated with other like topical agents, estrogens and 18 things like that. 19 Q. Let's turn to page 10. We're in the 20 section entitled TTVT-O. 21 A. Yes, ma'am. 22 Q. And you discuss the development of the 23 TTVT-O procedure was sparked by rare but significant 24 complications with valve preparations in the middle of the 25 paragraph, but the second small paragraph.</p>
<p style="text-align: center;">Page 123</p> <p>1 midurethral slings. 2 Q. And I'm just trying to make sure I 3 understand, if you know if the questionnaires with that 4 question were asked prior to and then asked again after or 5 not? 6 A. Every study is different. There's no way 7 for me to know. 8 Q. That would make a difference to you, as a 9 clinician, in understanding whether or not you're putting 10 your patients at risk for dyspareunia if you had an 11 understanding of whether or not there was actually a 12 presence of it before versus after. Would that make a 13 difference to you in trying to figure out whether or not 14 that's a complication you want to discuss with your patient 15 before her consenting to have the procedure, especially in 16 a young, fairly young, sexually active woman? 17 A. Listen, I think the way to answer that is 18 this. If we were to see the dyspareunia rates after 19 surgery to be significantly higher than the baseline, I 20 mean, then you would have to assume that those dyspareunia 21 rates are based on the surgery itself. If you see that 22 it's a moderate number, very close to what baseline numbers 23 would be, you would never know if it's just due to the -- 24 there's no way for you to know, and -- unless it is 25 specifically asked before and after, unless there was a big</p>	<p style="text-align: center;">Page 125</p> <p>1 So your understanding from the review of 2 the literature is that the TTVT-O device was meant as 3 another option to improve upon some of the adverse 4 experiences surgeons were having with the TTVT retropubic 5 device? 6 MR. WALKER: Object to form. 7 A. From my understanding, the obturator route 8 of placement of the sling was sparked not only to decrease 9 the risk of what's listed here, but also to help improve 10 voiding postoperatively and to decrease the rate of 11 transient retention. It also was sparked by -- there's 12 blood vessels behind the pubic bone that can be hit and 13 that low risk of retroperitoneal hematoma. So it was 14 trying to improve upon an already good product. 15 Q. On page 11, the complications and side 16 effects, you discuss the studies that compare a retropubic 17 route to the transobturator route and the fact that the 18 obturator exhibits more neurologic symptoms, mainly 19 consisting of leg weakness of the upper legs. Do you see 20 where that is? 21 A. Yes, ma'am. 22 Q. And then you go on to quote the Richter 23 study with regard to those adverse events. And then in the 24 next section you mention most leg weakness is short-term 25 from placement of the trocar through the obturator internus</p>

<p style="text-align: right;">Page 126</p> <p>1 muscle. And in this section I was wondering what study you 2 were basing this information on, because you also go on to 3 discuss the procedure with regards to the 45 degrees versus 4 90 degrees, and I wanted to see if I could get an 5 understanding of where this information came from. 6 A. Which part are you wanting to know? So 7 the 45 to 90 degrees part? 8 Q. Well, the fact that most leg weakness is 9 short-term, what did you base that opinion on? 10 A. Well, because there's some longitudinal 11 studies that look at leg weakness or pain initially and 12 then that over time is -- the rates of that actually 13 decrease so, you know, that actually is just transient. So 14 that's part of it. 15 Also part of it is from experience placing 16 the TTVT-O. And then just the sheer volume of data that's 17 out there. I don't know if there's a specific study. I do 18 remember one longitudinal study looking at 12 months, 24 19 months and seeing if there was a decrease in leg weakness 20 and pain. 21 Q. But you're not aware of any longer-term 22 studies that suggest that the leg weakness continues? 23 A. I am. I just can't quote it to you. And 24 it tends to decrease over time. 25 Q. Do you know of instances where it has not</p>	<p style="text-align: right;">Page 128</p> <p>1 implanting doctor." 2 My question is, if there is a patient that 3 experiences an injury with regards to the obturator nerve, 4 it's your opinion that it's the implanting doctor, his 5 failure to follow the instructions for use that results in 6 that complication? 7 A. Yes. 8 Q. Do you have any opinion with regards to 9 whether or not the fact that it's a blind passage of sorts 10 has anything to do with the ability of the doctor to follow 11 the instructions in the IFU? 12 A. So you're asking me does it make it more 13 difficult because it's a blind procedure? The answer to 14 that is that if you follow the instructions, that it's been 15 shown in anatomy, cadaveric labs, that you're going to be 16 way away from any nerves. And so the only way to -- you 17 know, you can feel your landmarks. You can feel where 18 you're going with the procedure. So it may be partly 19 blind, but it's also a tactile procedure as well. And so 20 if you're just -- you would have to be extremely way off 21 mark to get anywhere near the nerve or artery or vein. 22 Q. Are the landmarks you discussed, described 23 just now, do they change from patient to patient as far 24 as -- so if a woman is small stature versus larger in 25 stature, does that affect the landmarks and the path of the</p>
<p style="text-align: right;">Page 127</p> <p>1 decreased over time but it has increased based on reports 2 or studies you reviewed? 3 A. That it's increased over time? I've not 4 seen that. 5 Q. Going on to the section with regards to 6 the section where the handles had to be dropped from 45 7 degrees to 90 degrees before passing through the foramen, 8 are you basing this on Tips & Tricks that you learned with 9 regards to the TTVT-O or was this something that was in the 10 IFU, or do you know? 11 A. I believe that was in the IFU, but I would 12 have to go back and review specifically. I do know that 13 there's -- they may not say it specifically, but that's the 14 idea behind the placement, was dropping the handle. That's 15 a key technique part. 16 Q. Now, in the section near the bottom of 17 page 11, you're continuing to talk about some studies that 18 you referenced above, the Cheng study, the Serati study. 19 You start the paragraph, "These findings demonstrate that 20 while nerve injury is a potential and warned about risk of 21 the TTVT-O, long lasting pain associated with TTVT-O is very 22 rare. While it is possible that misguided trocars could 23 injure the obturator nerve or even in some cases the 24 pudendal nerve, such injuries are almost impossible if the 25 TTVT-O instructions for use are properly followed by the</p>	<p style="text-align: right;">Page 129</p> <p>1 device? 2 A. Not substantially. 3 Q. What do you mean by "not substantially"?</p> <p>4 A. Well, externally there may be a little bit 5 more size, but the actual anatomy of the pelvic bone 6 doesn't change substantially. So once you know where your 7 landmarks are, you should be able to follow the path in 8 without any trouble. So even though the patient may be 9 small or big, certain landmarks are consistent. And you 10 don't see, you know, wide variations in pelvises. I mean, 11 from child to adult there is, but from one adult to 12 another, there's not a wide variation. You don't see a 13 change in where a nerve or vein go. I mean, anatomy is 14 anatomy. So there might be some subtle changes, but 15 nothing substantial.</p> <p>16 Q. And that would have no affect on the 17 ability of a doctor to follow the instructions provided 18 with the TTVT-O device in your opinion?</p> <p>19 A. Correct.</p> <p>20 Q. So in any of the cases where there were 21 reports of groin pain related to the passage of the trocar 22 through the -- I guess it's the --</p> <p>23 A. Obturator internus and obturator membrane.</p> <p>24 Q. Correct. So any injury that would be 25 sustained by a patient in those areas following a procedure</p>

Page 130	Page 132
1 would all be because of the doctor's error? 2 MR. WALKER: Object to form. 3 A. So I would expect there to be some pain in 4 that area initially. It doesn't mean it was a defective 5 product. It doesn't mean that the surgeon did anything 6 wrong. Because you're placing a needle through a membrane 7 and then some muscle. So, you know, I would expect there 8 to be some transient groin pain. I mean, that's part of 9 having surgery. 10 Q. And do you have an opinion whether or not 11 the actual mesh that is fed through the tissues and muscles 12 that you were just describing, whether or not the fact that 13 that foreign body remains behind in that area has anything 14 to do with the continued groin pain or any of the effects 15 we were just discussing? 16 MR. WALKER: Object to form. 17 A. I have not seen data to support that. 18 Q. Would you expect for there to be 19 situations where having a foreign body in that area 20 long-term with movement, such as running or being active, 21 could potentially manifest itself as groin pain related to 22 the placement of the mesh? 23 A. I think any surgery in that area could, 24 but my problem with that premise is that if that was the 25 case, then every woman who ever had that implanted should	1 A. An internal document? 2 Q. Yes. 3 A. I can't -- I don't recall seeing one, no, 4 ma'am. 5 Q. Okay. If we could turn to page 12. 6 MR. WALKER: Could we take five minutes? 7 It's noon. 8 MS. BAGGETT: Sure. That's fine. 9 MR. WALKER: Just so we're clear, tell me 10 if you have any issues with this. 11 We're doing a five-hour deposition that is 12 covering both TVT-O and TVT-Secur. We're not 13 doing two separate depositions essentially. Is 14 that fair enough? 15 MS. BAGGETT: That's fair. 16 (Thereupon a break was taken from 11:59 17 a.m. to 12:08 p.m.) 18 BY MS. BAGGETT: 19 Q. Doctor, before the break we were talking 20 about the TVT-O device and some of your -- sections of your 21 report. I think we left off on page 11. And going to 22 page 12 from page 11, you start the discussion about the 23 Cochran Review, and you're discussing the 2015 review by 24 Ford, and then on 12 you move over to discuss the more 25 recent Cochran Review. And I noticed you didn't cite it,
1 have that problem, and that's obviously not the case. So 2 any woman can have groin pain from that surgery or she 3 could have groin pain from a non-mesh-related surgery. 4 Whether it's related to the mesh internally, you know, 5 again, I haven't seen the data on that. 6 Q. Do you know if there are any studies that 7 look at specifically the activity levels of a woman 8 receiving an obturator device versus a retropubic device 9 where that was actually analyzed and discussed in the 10 study? 11 A. I can't recall one being set up to discuss 12 activity levels after a sling. I would -- you know, 13 everybody's activity level is different to begin with, so 14 how can you really compare that? It would be a tough study 15 to compare. 16 I think that more than anything you're 17 looking at are the people in general living their lives and 18 doing the things they want to do without complaining of 19 groin or leg pain. And that would be shown in the studies. 20 Q. Have you reviewed any documents in 21 preparation for your report in this litigation, internal or 22 otherwise, that suggests that there was a concern for using 23 the TVT-O device in women who were active in sports that 24 would include a lot of running or activity -- 25 MR. WALKER: Object to form.	1 so I was just wondering which review you were relying on 2 there. 3 A. Well, let me look at this here. You're 4 talking about which Cochran Review is this last one? 5 Q. Yes, sir. 6 A. I assume it was the most recent one, but 7 I'll have to look and see here. 8 Q. And at least for the purpose of drafting 9 this report, where you have referenced a study, is it fair 10 to say that you read the study at least in its entirety and 11 not just an abstract or -- 12 A. That's correct. If it's in here, then I 13 read more than just the abstract. Let's look and see here. 14 Q. Actually, if you're saying the most 15 recent, I'm going to accept that as -- I don't want you to 16 have to -- 17 A. Thank you. 18 MR. WALKER: I can tell him which tab to 19 go to, though. 20 MS. BAGGETT: Understood. 21 BY MS. BAGGETT: 22 Q. I did have trouble finding one in the 23 section under urinary retention, the Johnsson Funk I think. 24 I was looking for that study. Is that the correct spelling 25 and such? Can you just verify that?

Page 134	Page 136
<p>1 A. It might be a hyphen in between there. I 2 may have it in here, too. Let me look and see. I'll tell 3 you what. If I can't verify it now, can I get back and 4 update you?</p> <p>5 Q. Certainly. That's fine. So if you'll 6 just note that one and the Funk one referenced above of 7 2013, if you could just confirm that both of those, what 8 the actual --</p> <p>9 A. Can I write on this?</p> <p>10 MR. WALKER: Yeah. Well, no, actually, 11 that's the one that's been marked.</p> <p>12 MS. BAGGETT: You know what I can do is -- 13 I have an extra copy he can use.</p> <p>14 THE WITNESS: Thank you.</p> <p>15 MS. BAGGETT: All right. So we'll move 16 on.</p> <p>17 MR. WALKER: Maybe I can help with that. 18 I think that might be a typo in terms of Jonsson. 19 It's J-o-n-s-s-o-n Funk.</p> <p>20 MS. BAGGETT: J-o-n-s-s-o-n. And is it 21 hyphenated?</p> <p>22 MR. WALKER: It's not in the study.</p> <p>23 MS. BAGGETT: Is Funk, also by itself, the 24 proper cite for the one above it?</p> <p>25 MR. WALKER: I don't know.</p>	<p>1 used --</p> <p>2 A. Oh, okay.</p> <p>3 Q. -- or if it was something you relied on 4 the position statement to tell you.</p> <p>5 A. So on this one specifically, I went back 6 and I reviewed the -- I didn't read the whole study, but I 7 did go through to see what they recommended as far as Level 8 A and so on to see if I either recognized the study or saw 9 that it was a high-powered study. And if I wasn't sure, 10 I'd go back and reviewed the abstract quickly to make sure 11 that it was something I could feel comfortable with. Did I 12 read every bit of every study? No, I did not.</p> <p>13 Q. And by doing the abstract, or reviewing 14 them in the manner you just described, were you able to 15 discern how many of those studies were long-term versus 16 short-term in your review?</p> <p>17 A. Sitting here now, I can't give you that. 18 I can't recall.</p> <p>19 Q. That's fine. At the bottom of page 14, 20 you reference five other societies and organizations joined 21 AUGS and SUFU in support of these statements. Are they 22 listed above or are they an additional five societies that 23 also -- I was wanting to make sure I understood what the 24 five other societies were.</p> <p>25 A. No, I would have go back and review. I</p>
Page 135	Page 137
<p>1 MS. BAGGETT: That's fine.</p> <p>2 BY MS. BAGGETT:</p> <p>3 Q. Okay. Now, on page 13 of your report you 4 talk about professional society statements. And you've 5 read each one of the statements or the guidelines that you 6 reference in your report in full. Is that fair?</p> <p>7 A. At one point in time I have, yes.</p> <p>8 Q. And in doing so, did you also look at the 9 studies that were cited in each one of the documents 10 produced by these societies, or had you seen it before on 11 reviewing the society documents?</p> <p>12 A. I didn't go through each one specifically 13 individually, but a lot of them I recognized or knew I had 14 read sometime in the past, so I didn't go back through each 15 one to review each study.</p> <p>16 Q. And the reason I ask that is because in 17 the third paragraph starting in 2015, you're talking about 18 the American College of Obstetricians and Gynecologists in 19 conjunction with the American Urological Society, and you 20 referenced that they reviewed the literature and issued a 21 statement based on level of data available, Level A 22 recommendation based on good consistent scientific 23 evidence. And I wanted to make sure that you -- if I 24 understood whether or not you had independently verified 25 that that was actually the type of evidence that was</p>	<p>1 think there was a mention of other small societies and I 2 didn't have the acronyms for each one of those. So I can 3 go back and review that and get that.</p> <p>4 Q. Sure. And we can move on. I don't want 5 to hold up to do that. We can make a note to reference 6 what the five other studies were here. And we'll move on 7 to TVT-Secur.</p> <p>8 Okay. In this section, under Design, you 9 reference the fact that "Other companies were developing 10 their own type of single incision sling and cumulatively, 11 they were described as 'mini slings.' I believe that the 12 TVT-Secur was safe in design and base this opinion on my 13 review of Ethicon documents, my discussions with colleagues 14 and my review of the medical literature."</p> <p>15 So is your opinion with regards to the 16 actual design of the device or on its application in your 17 practice?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 BY MS. BAGGETT:</p> <p>20 Q. I guess what I'm trying to say --</p> <p>21 A. Is that two separate issues?</p> <p>22 Q. Well, let me see if I can make that 23 question a little better. I may need to break it down.</p> <p>24 Okay. So I guess what I want to get an 25 understanding of is the opinions that you hold in your</p>

Page 138	Page 140
<p>1 report. Are you an expert -- are you holding yourself out 2 as an expert on the design of medical devices?</p> <p>3 A. Only as they apply to how they are used 4 when the final product is available and used on a patient. 5 But the actual engineering, I wouldn't.</p> <p>6 Q. So you've never designed a medical device 7 in your practice?</p> <p>8 A. No, but I have been involved with a think 9 tank, help improve designs for the Medtronic Interstim 10 device. I've helped with that, but I haven't physically 11 engineered any type of sling device.</p> <p>12 Q. Are you familiar -- as part of your review 13 in offering these opinions, did you make yourself familiar 14 with the standards a manufacturer must follow in designing 15 a mesh product?</p> <p>16 MR. WALKER: Object to form.</p> <p>17 A. So you're asking me if there's a certain 18 set of guidelines that manufacturers have to follow? No, 19 I'm not aware of how that process goes on.</p> <p>20 Q. And are you aware of any standards or 21 guidelines that must be followed in order to submit a 22 device, medical device, for approval or clearance through 23 the FDA?</p> <p>24 A. You lost me on that. Say that again.</p> <p>25 Q. I'm just trying to understand if you</p>	<p>1 designing of this device?</p> <p>2 A. I did read those.</p> <p>3 Q. You did?</p> <p>4 A. Yes.</p> <p>5 Q. And what, if anything, did that, in your 6 opinion, make you qualified to opine about with regards to 7 the design?</p> <p>8 A. So from the standpoint of all the 9 prototypes, no. But once it gets to a certain prototype 10 and it starts to become -- when the device is actually to 11 the point where it's going through the different studies, 12 whether it be human or animal, at that point those studies 13 are important to me, and so I would give an opinion based 14 on that.</p> <p>15 Q. Do you know what a DDSA is?</p> <p>16 A. DDSA. I'm not familiar.</p> <p>17 Q. And FMEA? Those are not acronyms that you 18 would use routinely in your practice?</p> <p>19 A. No.</p> <p>20 Q. Do you have an understanding of whether or 21 not when Ethicon was designing the TVT, the prolene mesh 22 that was used in the TVT, the TVT-R and the TVT-S, if the 23 mesh was designed to rope?</p> <p>24 MR. WALKER: Object to form.</p> <p>25 A. Well, the mesh was not designed to rope.</p>
Page 139	Page 141
<p>1 are -- in addition to being familiar with how a company 2 manufactures a device, are you familiar with the 3 regulations surrounding designing a device that must be met 4 in order to satisfy the FDA in order to get the product on 5 the market?</p> <p>6 A. Is that not similar to what we discussed 7 earlier about the 510(k)?</p> <p>8 Q. It's similar to it, but with particular 9 regards to the design. So there's safety and efficacy 10 things that can be done --</p> <p>11 A. Right.</p> <p>12 Q. -- but then there may be some --</p> <p>13 A. My knowledge of these devices comes from 14 going to meetings and talking to the different doctors who 15 have been involved in the different designs, or going and 16 reading the internal documents. But in no way, shape or 17 form have I ever been involved in the day-to-day process of 18 designing these things.</p> <p>19 Q. So is it fair to say that you're not 20 familiar with the failure modes and effect analysis and its 21 role in the development of the device? Do you know what 22 those are?</p> <p>23 A. I'm not familiar.</p> <p>24 Q. So you didn't review any procedures from 25 Ethicon's internal documents with regards to design, the</p>	<p>1 You're asking me if it was designed to rope?</p> <p>2 Q. Do you know if the mesh was designed to 3 rope?</p> <p>4 A. I think the idea behind the mesh was for 5 it to lie flat, but I don't know that there was any studies 6 to look at roping on mesh.</p> <p>7 Q. Do you know whether or not the mesh was 8 designed to curl?</p> <p>9 A. I can't comment on that, but in reality we 10 all know that it curls.</p> <p>11 Q. Do you know if it was designed -- that the 12 mesh in the prolene -- do you know if the mesh -- let me 13 just start over on that one.</p> <p>14 Do you know if the mesh used in these 15 devices was designed to fray?</p> <p>16 A. Was designed to fray? I'm not privy to 17 that information.</p> <p>18 Q. Do you know if it was designed to lose 19 particles?</p> <p>20 A. I'm not aware of any documents on that.</p> <p>21 Q. Do you know if it was designed to shrink?</p> <p>22 A. No. I'm not aware of any studies that 23 were designed to look at shrinkage of mesh.</p> <p>24 Q. Do you know if the mesh was designed to 25 deform easily?</p>

Page 142	Page 144
<p>1 A. I'm not aware of that either.</p> <p>2 Q. Would you agree that the things that I 3 just asked you about, each one of these, the roping, the 4 curling, the fraying, the particle loss, and shrinking and 5 deformation, that these would be considered unwanted or 6 unintended consequence of the mesh, whether they have 7 clinical impact or not?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. No. It depends on what they are using 10 them for. Some of the things you're saying -- you lumped a 11 bunch of things together. I don't know that, A, number 12 one, that some of the things you described are of any 13 negative consequence. B, I think it depends on what you're 14 using the mesh for at the time it was studied.</p> <p>15 Q. And today, for the purposes of today's 16 discussions, we're talking about the use in the TVT-R, the 17 TTVT-O and the TTVT-S devices. And my question is 18 specifically whether or not you agree if those qualities 19 would be unintended with regards to the design of the 20 devices, whether or not it has a clinical impact or not?</p> <p>21 MR. WALKER: Object to form.</p> <p>22 A. What you're describing there may -- well, 23 I don't know that it has a clinical impact. If it were to 24 have a clinical impact, hypothetically, then I don't know 25 of it. And I don't know of the ramifications of</p>	<p>1 at those warnings.</p> <p>2 Q. And that's kind of what I'm trying to get 3 at. As far as in your clinical practice, the way that you 4 perceive the warnings versus whether or not those warnings 5 met the expectations of the industry in complying with 6 regulations and standards.</p> <p>7 A. So you're taking that question and 8 assuming I know what the standards are. I think they met 9 the standards, yes.</p> <p>10 Q. And you know what those standards are?</p> <p>11 A. What I'm saying, I'm speaking from the 12 standpoint of a clinician what those standards would be. 13 I'm not involved in, again, regulation, so I don't know how 14 those things are set. Do I think the IFU is acceptable in 15 its either current or prior form? Yes.</p> <p>16 Q. Have you, in your review and in drafting 17 your report, read any testimony from Ethicon employees 18 regarding Ethicon's position on what needs to be in the 19 IFU?</p> <p>20 A. Yes.</p> <p>21 Q. And do you have an opinion as to whether 22 or not there was some conflict between the employees at 23 Ethicon whether or not something should have been in the 24 device that never made it to -- or should have been in the 25 warnings that never made it to the warnings?</p>
<p style="text-align: center;">Page 143</p> <p>1 determining that and then what the next steps are to 2 rectify it.</p> <p>3 Q. But even more succinctly, do you agree 4 that these conditions were not the intended consequence in 5 designing the mesh?</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. I can agree with that.</p> <p>8 Q. While we're on the subject of your 9 opinions, are you going to be offering opinions with regard 10 to warnings that were provided by Ethicon with regards to 11 the products at issue in this case?</p> <p>12 A. Yes.</p> <p>13 Q. What risk information are medical device 14 companies required to put in their IFUs? Are you familiar 15 with the requirements?</p> <p>16 A. Their requirements?</p> <p>17 Q. Uh-huh.</p> <p>18 A. Adverse events that are reported in the 19 literature I suppose. I don't know if there's a way that 20 the IFU is set that has to be met, but...</p> <p>21 Q. Do you know what the industry standards 22 are governing warnings on medical devices?</p> <p>23 A. I'm not aware of how those industry 24 standards are set. I do know that from a -- again, this is 25 all from a clinician standpoint, how we perceive and look</p>	<p style="text-align: center;">Page 145</p> <p>1 MR. WALKER: Object to form.</p> <p>2 A. I don't know of -- I do know there were 3 conversations among Ethicon representatives about certain 4 items. Again, from a clinical standpoint, that's kind of 5 a ticky-tacky question. Most of those items they're 6 discussing are already well-known complications, side 7 effects, that we tend to deal with in any pelvic surgery. 8 To me, I glanced through those, but in practice it's not 9 much of an issue.</p> <p>10 Q. Do you agree that physicians should be 11 made aware of all the significant safety risks that are 12 associated with the product via the IFU?</p> <p>13 MR. WALKER: Object to form.</p> <p>14 A. I'll just say this about the IFU. The 15 IFU, to me, needs to be in there because it has to be in 16 there. But I don't rely on the IFU. I don't know other 17 surgeons who rely on the IFU. I mean, to me, that would be 18 like relying on your builder to look at a printout of how 19 to put each board together.</p> <p>20 There are certain inherent things that are 21 in the IFU that I think are silly and don't need to be 22 there. For instance, it says "Don't operate on people who 23 are on anticoagulation," or "Make sure you sew up your 24 incision." So the IFU, from a clinician's standpoint, is 25 very -- it has to be there, but it's not something that we</p>

Page 146	Page 148
<p>1 rely upon.</p> <p>2 Q. In our discussions earlier today we were 3 talking about how you were trained on the devices, and you 4 mentioned that the earlier devices you learned in 5 residency, through your residency programs, and that with 6 the TVT-S device you actually took the professional 7 education courses provided by Ethicon. Do you recall that 8 conversation?</p> <p>9 A. Yes, ma'am.</p> <p>10 Q. Do you have an understanding of whether or 11 not -- and I know that you just recently testified that you 12 don't rely on the IFU -- do you have an understanding 13 whether or not the people that you learned the procedure 14 from, whether or not at some point they may have read and 15 relied on the IFU in relaying information to you?</p> <p>16 A. Well, I don't know that I testified 17 exactly that, said I don't rely on the IFU. But it's not a 18 critical -- if I said that, really, my point of saying it 19 is it's not a critical part of a clinician's 20 decision-making process. It can be helpful in certain 21 circumstances, but in reality we don't -- you know, 22 physicians don't look at that every time that we perform a 23 procedure. Are there other physicians who may look at that 24 before? I have no way of knowing. I have no way of 25 knowing the people that I've trained from, whether they</p>	<p>1 that's probably the most helpful may be the step-by-step 2 way of putting the device in, the utilization of it. The 3 things that actually from a standpoint of -- I think it's 4 kind of a little bit -- I don't know if not necessary is 5 the right word, but of really no practical importance; you 6 know, what patient is operated on, how long postoperatively 7 to do things. I mean, that's a little bit insulting to my 8 intelligence to say that I went through all that training 9 to have somebody tell me that I have to tell the patient 10 they must wait four weeks before intercourse after having 11 the sling procedure. And there's a lot of stuff like that 12 that's in there, but of any to no practical use.</p> <p>13 So that thing that is practical useful is 14 the actual, you know, where do my hands go, what do I need 15 do to put this in. But the other part of it is, I mean, 16 it's already well-known, it's already something that's 17 reported in the literature, and it's not something we 18 gained just from the IFU.</p> <p>19 So to answer your question is, there's no 20 other person that's better than all the physicians who use 21 it and the company that makes it combined together with all 22 the literature to come up with these IFUs.</p> <p>23 Q. I don't mean in any way to insult you and 24 your intelligence with my questions.</p> <p>25 A. You're not insulting me.</p>
<p style="text-align: center;">Page 147</p> <p>1 looked at that or not.</p> <p>2 Q. I guess what I'm getting at is who would 3 be in a better position to know all of the fine details of 4 the procedure than the designers of the device and the 5 procedure?</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. So who would be better at knowing that 8 than the designers? Are you talking about the 9 manufacturers?</p> <p>10 Q. Uh-huh.</p> <p>11 A. Well, isn't it kind of a combination of 12 the manufacturers and the physicians to come up with that?</p> <p>13 Q. Well, and, actually, I think the 14 manufacturers employ physicians that assist with this. But 15 I guess what I'm saying is, you learn what you learn from 16 med school. At some point someone has to be taught -- 17 number one, shown that there is such a device and then 18 shown how to properly use the device, even if that 19 information passes from preceptor to preceptor to 20 preceptor.</p> <p>21 I guess what I'm trying to understand is, 22 who would be in the best position to know how to properly 23 perform that procedure than the manufacturer?</p> <p>24 A. I understand what you're saying now.</p> <p>25 Okay. So there's multiple parts on the IFU. The part</p>	<p style="text-align: center;">Page 149</p> <p>1 Q. I just want to make sure that you 2 understand that I've got my job to do to ask these 3 questions.</p> <p>4 A. No, ma'am, I don't take it from you at 5 all.</p> <p>6 Q. And I do understand where you're coming 7 from with the fact that certain things that are understood 8 in your practice may not be as necessary to state in the 9 IFU, but would you expect that the more important the 10 information is that the more -- I have a tendency to get my 11 whole thought process off. So if that is common 12 information that every doctor should know, and you're not 13 going to pay any attention to it when you go and review it, 14 certainly if there's something that's not common, that 15 would be something that you would expect to learn from the 16 manufacturer of the device and not wait until the studies 17 that could be many years down the road come out that 18 suggest there's a problem, if they knew at the time the 19 device was manufactured. Do you agree with that?</p> <p>20 MR. WALKER: Object to form.</p> <p>21 A. That's a pretty convoluted question.</p> <p>22 Q. If you want me to restate it, I will, or 23 do you think you understand it?</p> <p>24 A. I think I understand it.</p> <p>25 Q. Because I don't want you to guess. I</p>

Page 150	Page 152
<p>1 don't want to confuse you.</p> <p>2 A. Right. So are there things in there that</p> <p>3 need to be stated that aren't well-known otherwise? I</p> <p>4 mean, by the time that these things are made or put in,</p> <p>5 there's already data on it, so you have to come up with</p> <p>6 that information somehow, right? And that data -- I mean,</p> <p>7 is there any data that we don't see that's out there? I</p> <p>8 wouldn't think there's very often that that occurs. But</p> <p>9 anything that I think is important could be put in there,</p> <p>10 but it could not be put in there.</p> <p>11 Again, as surgeons we just don't use that.</p> <p>12 I mean, it's not a practical part of daily operation. I</p> <p>13 get an IFU every time that I put in an Interstim. I've not</p> <p>14 looked at one in years. I don't understand why people feel</p> <p>15 like that's the Holy Grail of what we do as surgeons. I</p> <p>16 mean, we learn how to do a procedure. Once we learn how to</p> <p>17 do the procedure, we already knew the risks and benefits</p> <p>18 beforehand, we know what the potential side effects are</p> <p>19 afterward. I mean, all these things can happen. We know</p> <p>20 anything can happen with surgery. So, you know, the IFU</p> <p>21 doesn't really play a big role in this.</p> <p>22 Q. I guess what my distinction is, certainly</p> <p>23 between the things that you know or should know as a</p> <p>24 surgeon, and more focused on the things that you may not</p> <p>25 have the ability to know because as far as the literature</p>	<p>1 of as soon as they knew about it?</p> <p>2 MR. WALKER: Object to form.</p> <p>3 A. So by stating that you're wanting me to</p> <p>4 assume that's the truth, that there's a significant</p> <p>5 difference in the two? Because I'm not going to answer in</p> <p>6 a way that's going to tell you that I think there's a</p> <p>7 difference significantly between a TVT-O --</p> <p>8 Q. I'm not asking it in the way that you --</p> <p>9 A. If you are asking hypothetically --</p> <p>10 Q. If there were documents that suggests --</p> <p>11 A. If there were documents, okay.</p> <p>12 Q. -- that Ethicon was aware of that suggest</p> <p>13 that the device had a greater risk of erosion than the</p> <p>14 mechanically-cut devices, and they knew that before they</p> <p>15 offered that device, do you feel like the company is</p> <p>16 obligated to make you aware of that before --</p> <p>17 A. If there's a huge --</p> <p>18 MR. WALKER: Hang on a second. Did you</p> <p>19 finish your question?</p> <p>20 MS. BAGGETT: -- before you use that device</p> <p>21 in one of your patients?</p> <p>22 MR. WALKER: Object to form.</p> <p>23 THE WITNESS: If there's an enormous</p> <p>24 disparity, then I think there's something that</p> <p>25 needs to be said. If it's an inconsistent, small,</p>
Page 151	Page 153
<p>1 available to you, it hasn't made its way into the common</p> <p>2 knowledge.</p> <p>3 A. Well, I think things like -- for instance,</p> <p>4 if I put in a sling and they noticed that patients were</p> <p>5 having blue vision, I'd want to know that. That's</p> <p>6 something that doesn't make any sense. That's completely</p> <p>7 off the mark.</p> <p>8 But anything that has to do with vaginal</p> <p>9 procedures, bleeding, pain, et cetera, et cetera,</p> <p>10 et cetera, that's not a big surprise. What would be a big</p> <p>11 surprise is if they said that your right knee would hurt or</p> <p>12 maybe your left elbow would hurt. I mean, those are</p> <p>13 off-the-wall things. Yeah, those things I would want to</p> <p>14 know, but anything other than that, it's all common</p> <p>15 knowledge.</p> <p>16 Q. So for instance, with regards to the TVT-S</p> <p>17 device, we discussed earlier about the fact that it was</p> <p>18 laser cut.</p> <p>19 A. Okay.</p> <p>20 Q. If the manufacturers of the TVT device</p> <p>21 understood that the laser-cut mesh had a propensity to</p> <p>22 cause more frequent and more severe erosions or exposures</p> <p>23 than the other devices, would that be something that you</p> <p>24 would expect that they would -- whether it be in the IFU or</p> <p>25 in the form of some other communication -- make you aware</p>	<p>1 then I think that there would be -- the margin of</p> <p>2 error or the -- I guess I'm blanking on what I'm</p> <p>3 trying to think of. But the potential that</p> <p>4 happens by chance could accommodate for that. But</p> <p>5 if there's a significant change, then that would</p> <p>6 be something that we would want to look at.</p> <p>7 BY MS. BAGGETT:</p> <p>8 Q. And I understand that as far as this field</p> <p>9 of practice goes, you're at the upper end in a urologist's</p> <p>10 understanding of female anatomy and the procedures and the</p> <p>11 techniques, but as far as someone on that bottom layer --</p> <p>12 and I think you also mentioned to me earlier that at least</p> <p>13 unique to Knoxville, the gynecologists don't perform the</p> <p>14 same stuff that the urologists do, they refer them to the</p> <p>15 urologists.</p> <p>16 So in situations where that's not the</p> <p>17 case, this is not the norm, and you've got a doctor who is</p> <p>18 not as well adept at the procedures and the anatomy and the</p> <p>19 understanding of the disease processes, do you feel that</p> <p>20 there's any obligation on the manufacturer of warning in a</p> <p>21 way that helps that type of doctor understand the</p> <p>22 seriousness of some of the adverse events, if only to allow</p> <p>23 them to have that conversation with their patients when</p> <p>24 deciding whether or not to use the device?</p> <p>25 MR. WALKER: Object to form.</p>

Page 154	Page 156
<p>1 A. Well, that's a thought. And I guess 2 that's something that the individual physician probably 3 needs to come to terms with, is do they feel comfortable 4 doing that procedure or not. I mean, there's certain 5 procedures I don't feel comfortable with and I'll send off 6 to others. But, you know, that's part of the whole -- 7 you're asking me is that -- if you didn't know about a 8 certain problem, and you were going to go ahead and perform 9 a procedure, would that be something that you may have not 10 done if you had known there could be a problem to begin 11 with? Is that what you're asking me?</p> <p>12 Q. Yes, sir.</p> <p>13 A. I think what you're insinuating there is 14 there's some type of significant discrepancy between what's 15 known and what's true, and that would be hard for me to 16 really believe.</p> <p>17 Q. And I'm not asking you to agree with me on 18 any given point whether or not there is such a thing, 19 because we don't have time to go through all the studies 20 and all the internal documents for me to show it to you, 21 and I know you're limited on what you can glean from the 22 few documents I've even shown you today. Certainly that's 23 one document in millions.</p> <p>24 But for the sake of argument, as I said, 25 it's only if that were true and there were events that were</p>	<p>1 obviously, the companies are trying to make it easier on 2 the physicians and, therefore, the patients. And so they 3 don't want to -- they don't want to hide things from the 4 physicians, because if they start having problems, they're 5 going to have a big backlash against that product and they 6 are going to lose confidence in that product. So I think 7 there's got to be a very open dialogue. I would expect the 8 company would want that, because, otherwise, there would be 9 a mutiny.</p> <p>10 Q. And you were just describing a situation 11 where a product is new to the market. With regard to the 12 TTV-S, are you aware of any discussions in any of the 13 documents that you've reviewed or in any of the testimony 14 that you've reviewed in preparing your report today of 15 whether or not one of the problems with the learning curve 16 situation with the TTV-S device was because doctors were 17 trying to rely on the procedure they had been taught with 18 the TTV-R and the TTV-O and that procedure was different 19 enough that it wasn't flowing perfectly with the way that 20 this procedure had to be performed, or do you have an 21 opinion at all?</p> <p>22 MR. WALKER: Object to form.</p> <p>23 A. Yeah, it would be hard for me to really 24 comment on how that all -- I mean, each individual 25 physician's ability to do that. I mean, it would be a</p>
Page 155	Page 157
<p>1 serious enough that a doctor might reconsider using it, 2 especially in a certain population of patients, or at the 3 very least would have had that conversation with the 4 patient and allowed them the opportunity to decide, that 5 would be something important to relay to those doctors?</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. You know, I think that -- I'm trying to 8 put myself in the position of those physicians. And, you 9 know, if it was a new procedure that just came on the 10 market and there was no precedents before it, it was 11 completely new, I can see that. But when it's just a 12 variation of what's going on before, I think you already 13 have an idea about what to expect and not expect and side 14 effects and complications.</p> <p>15 So at that point, you have to make the 16 decision. And I think you have to be honest with the 17 patient and say, look, I haven't done many of these 18 procedures; if you would rather go see somebody else who 19 has, we can do that. But it's the conversation. And I 20 think if it's a completely new procedure that's never been 21 on the market, completely different than anything else, I 22 can see that. I think in other ways, as a physician, you 23 can assimilate all that information fairly rapidly and come 24 to your own conclusion.</p> <p>25 I do think there's some -- you know,</p>	<p>1 guess on my part.</p> <p>2 Q. And if you knew that -- and I think we may 3 have talked about this before, so if I'm repeating, I 4 apologize. I'm just trying to make sure I've got it clear. 5 But if Ethicon was aware of enough of a difference in a 6 procedure that was subjecting women to additional 7 complications and/or failure of the device because of the 8 lack of proper training or information with regard to the 9 differences in the approach and the technique, do you feel 10 that it's their responsibility to make sure that that is 11 related to the doctors that are going to be using the 12 device?</p> <p>13 MR. WALKER: Object to form.</p> <p>14 BY MS. BAGGETT:</p> <p>15 Q. Do you understand what I'm asking you?</p> <p>16 A. So you're asking me if the complication 17 occurs or if there's a change in the procedure enough, that 18 that needs to be relayed to the physician? Possibly. This 19 is just so -- you know, I think that it is a new procedure, 20 or it was a new way of putting it in, and so there are 21 little nuances there that I think very quickly could be 22 disseminated to the physicians, either through the work of 23 their sales reps or what have you, or the proctors. And 24 that could be something done very easily, just a phone call 25 or e-mail saying, hey, make sure you put this in this way,</p>

Page 158	Page 160
<p>1 a little bit tighter than normal with the obturator and the 2 retropubic. I think that could be a very easy way of 3 disseminating that information.</p> <p>4 Does that answer your question?</p> <p>5 Q. It does. Do you know who Dr. Lucente is?</p> <p>6 A. Dr. Lucente? I've never met the man.</p> <p>7 Q. Have you read about him in the materials 8 that you reviewed in drafting this report?</p> <p>9 A. Yes, I do remember him, but I'm going to 10 have to go back and review precisely what his role was.</p> <p>11 Q. And I'll save you some trouble. I just 12 want to know if you recall reading anything that suggested 13 that even Dr. Lucente -- who I'll represent to you was one 14 of the KOLs with Ethicon -- whether or not you read 15 anything suggesting he was having trouble with the learning 16 curve as well when he first began using the TVT device?</p> <p>17 MR. WALKER: Object to form.</p> <p>18 A. Yeah, I don't recall exactly.</p> <p>19 Q. And that's fine. You reference on page 20 16, in the second paragraph, "Other studies showed inferior 21 cure rates of the TTVT-Secur and the TTVT-O or 22 TTVT-retropubic," and you chalked that up to the learning 23 curve for the placement of the sling because the only 24 variable was the surgeon. Can you tell me exactly what you 25 meant by that?</p>	<p>1 A. Well, they have to place it in there, 2 right? I mean, that's part of what they have to do. They 3 have to say that. But the other part of it is, again, they 4 want a product that is effective and they want their 5 implanters and their patients to have good results. I 6 mean, if you make a crappy product, it's not going to -- 7 you're going to have a hard time with having the physicians 8 trust you, right?</p> <p>9 So if they noticed they were having some 10 issues, they could have done one of two things. They could 11 have just said, Well, those doctors don't know what they 12 were doing, they just need to read the literature, or we 13 can actually encourage them with some little tips that will 14 improve the efficacy of what we're already doing.</p> <p>15 Q. And is that what you meant by their 16 warnings in the TTVT-Secur IFU and their outreach? Are you 17 saying that Ethicon undertook efforts to make doctors aware 18 of these?</p> <p>19 A. I believe so.</p> <p>20 Q. And you base that on the documents that 21 you reviewed in preparation for this report?</p> <p>22 A. Yeah. I mean, there's a lot of ways to go 23 about improving things, and so they did take steps to try 24 to improve it.</p> <p>25 Q. And what steps do you recall from your</p>
<p style="text-align: center;">Page 159</p> <p>1 A. Sure. So, I mean, it's the same product 2 and it's the same -- you know, we'll go back to your IFU 3 you discussed. It's the same women. They are not some 4 different type of women. So how can you explain the 5 difference between some products being as effective as 6 other products? Well, I mean, if you're getting good 7 results in one area of the world, but a completely 8 different area of the world doesn't, then that means that 9 there's an issue with the way they are putting it in. I 10 mean, there's no other variable. And I can't explain it. 11 I don't know. But, I mean, who knows what their training 12 is, who knows how they work in Australia and Germany. I 13 have no idea. If they are experienced implanting these 14 things, I have no idea. That's the only variable.</p> <p>15 Q. And you go on to suggest that "Ethicon's 16 outreach to surgeons and their communications of surgical 17 insights to the medical community following the release of 18 the TTVT-Secur demonstrate the company's responsible efforts 19 to ensure the TTVT-Secur was being properly implanted across 20 the board. Their warning in the TTVT Secur IFU that 21 under-correction or incorrect placement may result in 22 incomplete or no relief of urinary incontinence was 23 appropriate."</p> <p>24 And based on what we discussed earlier, 25 can you explain this to me?</p>	<p style="text-align: center;">Page 161</p> <p>1 review, if any -- what do you recall from your review of 2 the steps that they took to reach out to the surgeons?</p> <p>3 A. Well, the Tips & Tricks is the main one, 4 and that gets relayed, again, to the guys in the field who 5 are in there operating with the surgeon, just reminding 6 them of the simple facts.</p> <p>7 Q. If you'll go with me to page 17, at the 8 top. Although it's the middle of the paragraph, I wanted 9 to focus on the first sentence. It says, "relatively few 10 side effects as thigh pain was virtually eliminated and 11 retention rates that were much lower. It appears that if 12 this technique was developed prior to the TTVT or TTVT-O, 13 that the enthusiasm would have been much greater."</p> <p>14 A. Hold on.</p> <p>15 Q. It's back to what you were saying before 16 about the innovation --</p> <p>17 A. I'm not sure where -- do you know -- which 18 paragraph are you on?</p> <p>19 Q. Top of 17. You can read the whole 20 paragraph. That was what I was trying to understand, is --</p> <p>21 A. Okay. I understand now. I see.</p> <p>22 MR. WALKER: Was your question just for 23 him to explain it?</p> <p>24 Q. Well, yeah. I wanted to know that you -- 25 let's see. The fact that it appears if this technique was</p>

Page 162	Page 164
<p>1 developed prior to the TVT or the TVT-O that the enthusiasm 2 would have been much greater, and I just wanted to get an 3 idea what you meant by that.</p> <p>4 A. Well, it goes back to what I said earlier.</p> <p>5 The bar was set so high when the TVT Retropubic and TVT-O 6 came on board that people saw cure rates and success rates 7 and less morbidity and return to work and those type of 8 things. They saw that so much faster that you kind of lost 9 perspective of where you were in 1990. And if the 10 TVT-Secur had been the first product on the market, and had 11 the same efficacy that it did when it was launched, people 12 would say, oh, man, what an improvement from what we had 13 before, we can now cure incontinence with a small incision, 14 people can get back to work the next day or a few days 15 later, minimal pain medicine, you know, the voiding 16 dysfunction is really undisturbed, incontinence rates are 17 improved, we would say that's a significant improvement 18 over what we had to begin with. And it's all based on 19 perspective.</p> <p>20 Q. And you go on to say that "Lesser surgical 21 techniques for SUI have lasted longer in common place 22 surgical therapy than TVT-Secur. This does not mean that 23 it was flawed in design or concept. It was not brought to 24 market too quickly, it did not have high side effects. In 25 my opinion, the TVT-Secur was a safe and effective therapy</p>	<p>1 or your understanding of the industry standards and such as 2 that we talked about before. Is that fair? And you can 3 correct me in any of those ways. But what I'm trying to 4 make sure of is you haven't changed your opinion from 5 earlier in our discussions to now with regards to the 6 design of the product.</p> <p>7 MR. WALKER: Object to form.</p> <p>8 A. So, yeah, I see what you're saying now.</p> <p>9 So, again, when it comes to a product that's on the market, 10 does it do what it's meant to do, is the design that it was 11 made for get the job done. I can comment on that, and I 12 think it was.</p> <p>13 What I can't comment on is how did it come 14 to being, from that standpoint. You know, where did it 15 come from to become the shape it was in, how did they 16 decide what angle to make the points at, all those type 17 things. I have no idea. But when it came to market and it 18 was used and the study showed what it did, then I can 19 comment that I felt if there was a design flaw, it would 20 have been obvious.</p> <p>21 Q. And as far as your opinion that it was not 22 brought to the market too quickly, is that based on -- I 23 guess what I'm -- let me start back over with that.</p> <p>24 Are you aware of any documents or 25 testimony in the review that you conducted prior to forming</p>
Page 163	Page 165
<p>1 for SUI."</p> <p>2 And my question is, what are you basing 3 your opinion on with this respect? And I think we've 4 touched on some of it, but I want to make sure I haven't 5 misunderstood what was meant in this particular section, so 6 I was going to get you to explain it to me.</p> <p>7 A. So let's take, for instance, something -- 8 injection therapy for incontinence. That's been around for 9 years. Collagen, Coaptite, other things. It's nowhere 10 near as effective as any of these procedures, but people 11 still use it. It doesn't mean the product is flawed. It 12 means that it does what it's supposed to do.</p> <p>13 The same thing with TVT-Secur. It's 14 designed for what it's meant to do. It has low side 15 effects. It was brought out in a situation where we 16 already knew what mini-slings can do, that, in my opinion, 17 that it was brought in in a situation that was -- did not 18 raise any eyebrows. People, once they got the hang of it, 19 were doing well. My patients were doing well with it. I 20 was upset when it was taken off the market. So it wasn't a 21 design flaw. It was just the nature of kind of the 22 environment at that time.</p> <p>23 Q. And, again, that's based on your 24 experience with the product and from a clinical standpoint 25 and not based on your analysis of the design history files</p>	<p>1 your opinions in this case as to whether or not there may 2 have been additional steps or more studies that had to be 3 performed before this product was brought to the market?</p> <p>4 A. Yeah. So there was internal documents 5 about should we do more studies or not, and the consensus 6 felt that based on the previous TVT retropubic, TVT-O, the 7 fact that the mesh was proven already and it was the same 8 mesh, that they needed some studies to prove certain 9 things, and that then it was up to the FDA to decide if 10 that was adequate or not. And the FDA approved it, so you 11 can only -- you have to go by that.</p> <p>12 Q. And in your opinion it doesn't have high 13 side effects. And that's based on the literature that 14 you've read and your clinical experience with the products 15 or the TVT-S devices that you've implanted. Is that what 16 you're basing that on?</p> <p>17 A. Yes, ma'am.</p> <p>18 Q. And you're not aware of any studies that 19 suggest that the side effects were any greater than the 20 other devices, the TVT-R and the TVT-O?</p> <p>21 A. If you look at the big studies, the 22 randomized controlled trials and the big meta analysis 23 studies, there's really not. You can see that now. You 24 know, even after the Secur came off the market, they did 25 some more studies afterwards, and you can see there's not a</p>

Page 166	Page 168
<p>1 significant difference in severe side effects. The caveat 2 would be whether there's a difference in efficacy, and I 3 think there's a small difference in efficacy, but some 4 studies show very similar efficacy.</p> <p>5 So if you're talking about efficacy being 6 a side effect, let's make sure to clarify that. That's not 7 a side effect, I mean, that I would say is a significant 8 side effect specific to that device. That can happen with 9 any type of incontinence procedure. I think, if you're 10 asking me, you know, erosion, extrusion, those type of 11 things, those type of things are documented to be very 12 similar.</p> <p>13 Q. And I apologize. That's what I meant to 14 do, was to distinguish between the safety issues and the 15 efficacy. So you did very well in explaining that and 16 the --</p> <p>17 A. That makes me worry.</p> <p>18 Q. With regard to the success rates, are you 19 aware of any studies that suggest that there is a decline 20 in its effectiveness the further out from this procedure 21 that you get, or if it remains constant after the 22 procedure?</p> <p>23 A. Well, all the slings -- it's not specific 24 for Secur, but all the slings, whether it be mesh or 25 non-mesh, they do show a gradual increase in incontinence</p>	<p>1 obligations with reporting, such as that, or tell me, 2 correct me, as to what your opinions will be.</p> <p>3 A. My opinions are going to be based on 4 clinical work, not bench work.</p> <p>5 Q. And the next section on page 18, we talked 6 about degradation. Is it fair to say that anything you 7 read with regards to the topic of degradation would have 8 been included in your reliance materials?</p> <p>9 A. Yes.</p> <p>10 Q. Okay.</p> <p>11 A. Well, yes. I will say, though, that I 12 tried to get a little bit more familiar with that term.</p> <p>13 And so there were some PubMed searches that I did that I 14 just kind of perused the abstracts of. I didn't break down 15 every bit of it. I just tried to learn a little bit more 16 about what that was all about.</p> <p>17 Q. But if it had an impact on or changed your 18 opinions, that would have been something you would have 19 listed in your reliance material?</p> <p>20 A. Yes. Yes, ma'am.</p> <p>21 Q. Cytotoxicity. We talked briefly about 22 whether or not the mesh was inert. I just want to 23 understand whether or not your opinions on cytotoxicity 24 come, again, from your practice and experience with the 25 mesh or if there's some underlying research or material</p>
Page 167	Page 169
<p>1 rates.</p> <p>2 Q. And are you aware of anything particular 3 to the TVT-S that suggests that the initial postoperative 4 success was great, but there was a very quick decline in 5 the effectiveness of --</p> <p>6 MR. WALKER: Object to form.</p> <p>7 A. I think I saw a study or two that may have 8 commented on that. But, again, when you look back at the 9 big overall picture, that doesn't really play out as much.</p> <p>10 Q. Okay. So now we're to the TVT-O, TVT 11 Secure warning section of your report.</p> <p>12 A. And before we get started, can I take a 13 bathroom break real quick?</p> <p>14 Q. You sure can.</p> <p>15 (Thereupon a break was taken from 1:04 16 p.m. to 1:07 p.m.)</p> <p>17 BY MS. BAGGETT:</p> <p>18 Q. So when we went off the record, we were 19 about to start the section of your report on page 17 where 20 you talk about TVT-O and TVT-Secur warnings. And I just 21 want to clarify our discussions earlier with regards to the 22 warnings.</p> <p>23 Your opinion is based on your clinical 24 practice and what you know as a surgeon and not necessarily 25 on the regulations involved with the warnings and the</p>	<p>1 that you reviewed that you're going to testify with regards 2 to the more basic properties and such, like polymer science 3 and things like that.</p> <p>4 A. At this point I'm not planning on 5 testifying as an expert in those bench type of issues. I 6 know some about it, but not enough that I would feel that I 7 can be -- I'm not going to be able to tell you how those 8 polymers are put together. I'm not a chemist.</p> <p>9 Q. And, let's see, with regards to 10 contraction, your opinion with regard to whether or not 11 mesh contracts once it's in the body, have you read any 12 literature that suggests that the mesh contracts or shrinks 13 over time?</p> <p>14 A. The literature that I read suggests 15 there's some initial foreign body reaction, and that can 16 cause a kind of scarring which can cause that a bit. But 17 when you actually look to see if it moves or contracts, 18 there's no data on that at all. There were different 19 studies to look at placement of the mesh. And the biggest 20 thing, from my perspective, that proves it is if there was 21 continued contraction, then we wouldn't see a worsening or 22 a decline in incontinence rates. We'd see an improvement 23 in incontinence rates and we'd see also an increase in 24 retention rates, which we don't see.</p> <p>25 So looking at different studies on whether</p>

Page 170	Page 172
<p>1 the mesh actually moves, you know, could there be some 2 slight contraction from the fibrotic reaction? Yeah, but 3 not substantially, not clinically a large volume, a large 4 percentage.</p> <p>5 Q. Is it your experience that different 6 patients scar differently in response to trauma?</p> <p>7 A. I mean, there's very little change. I 8 mean, it's all within a certain realm, yes.</p> <p>9 Q. By that I mean like some people when we 10 get a scar -- I was bitten by a dog and it's recessed. 11 Some people develop these really thick ones.</p> <p>12 A. Those are called keloids and some people 13 have a problem with it. It doesn't occur vaginally that 14 I'm aware of. From my understanding, it's only on the 15 epidermis.</p> <p>16 Q. So the tissue in the vagina is different 17 than the skin in the way that it responds to --</p> <p>18 A. Well, again, you're not going to see -- 19 I've never seen keloids vaginally. You know, everybody 20 heals a little bit differently, but not substantially 21 differently.</p> <p>22 Q. And based on the foreign body response, 23 even if it's the initial healing process, does that affect 24 the development of adhesions in the area?</p> <p>25 A. Adhesions? There shouldn't be any</p>	<p>1 when it was put in. I mean, it looks pretty well the same.</p> <p>2 Q. When you review the mesh that you review, 3 do you do so with the naked eye or do you look at it under 4 a microscope?</p> <p>5 A. Me personally, I look at it with the naked 6 eye, but the pathologists look at it under the microscope.</p> <p>7 Q. And are you aware of whether or not the 8 pathologist that you send your mesh to does any type of 9 analysis to determine whether or not the mesh has retained 10 its pore size, original pore size?</p> <p>11 A. Well, I don't -- no, ma'am, to answer your 12 question.</p> <p>13 Q. That's not part of your practice on a 14 daily basis?</p> <p>15 A. Yeah, they don't measure the pore size.</p> <p>16 But from a visible standpoint, you can tell it hasn't 17 deformed.</p> <p>18 Q. Section 5 where it says, "Mesh is too 19 heavy, meaning lightweight mesh is preferred," you can go 20 ahead, and if you will, tell me what your opinion is with 21 regards to that.</p> <p>22 A. Well, that was an interesting point. I 23 mean, this whole thing has brought up some points. And I 24 wanted to mention too that part of my being an expert 25 witness means I have to follow the code of conduct of the</p>
Page 171	Page 173
<p>1 adhesions.</p> <p>2 Q. If we go to page 20, Section 4, pores too 3 small, we discussed that earlier as well. Is your opinion 4 different than what we discussed before as far as the 5 studies that you've reviewed, the materials that you've 6 looked at of the internal documents on pore sizes -- is 7 there something about pore size that you are familiar with 8 enough that you feel comfortable rendering an opinion as to 9 the pore size and its effects on success of the procedure 10 or any of the complications that may result from the 11 procedure?</p> <p>12 A. No. But Moalli is the paper that I 13 remember referencing now as far as the pore size. But, no, 14 I think I said everything earlier that I wanted to say.</p> <p>15 I have a little bit of confusion because 16 on one hand there's this concept of the mesh somehow 17 pulling, but then there's also this concept of the mesh 18 contracting. And so I feel like it's contradictory how -- 19 I mean, I don't think either one of them will happen with 20 any significance. So I think pores pretty well stay the 21 same. And I can tell that's the case on the few pieces of 22 mesh I've had to remove, there's really no clinical 23 difference whenever -- a visible difference whenever you 24 look at the mesh that you've removed when it's sitting 25 there in the patient, you know, years after surgery versus</p>	<p>1 American Urologic Association, which says follow all -- 2 consider all sides of the point, don't just consider one 3 point.</p> <p>4 So, you know, this is an interesting 5 concept that I've had to really deal with. But if you 6 actually look at some of the data, I mean, it really is 7 inconsistent, number one, and there's no consensus. I 8 mean, this heavyweight versus lightweight thing, I don't 9 understand -- I mean, I understand where your perspective 10 is, but my perspective isn't the same. And a lot of this 11 mesh was based on huge pieces of mesh that were placed in 12 the abdomen, not a very small thin piece that was placed 13 vaginally. And so I think that's comparing apples to 14 oranges.</p> <p>15 And, secondly, you can see here that in 16 certain classifications, your describing of heavyweight 17 mesh isn't necessarily what one classification stated that 18 this mesh was. So I think there's a lot of inconsistency, 19 but the main thing I came away with this is that the mesh 20 is the appropriate mesh for what it does. The weight is 21 the right weight.</p> <p>22 Q. Do you have an opinion as to whether or 23 not a mesh used for a hernia application would be 24 appropriate for use in the female reproductive area based 25 on, like we discussed before, the location of it and the</p>

Page 174	Page 176
<p>1 dynamics, the difference between the dynamics of those two 2 applications?</p> <p>3 A. It could be, and let me tell you why it 4 couldn't be. They used GORE-TEX for mesh repairs in the 5 past. And then they tried to use that for female slings 6 and it just didn't work. There was too many problems. And 7 so that has been abandoned. But prolene and polypropylene 8 is a different story.</p> <p>9 Q. And if you look to page 21, laser-cut mesh 10 versus mechanically-cut mesh, we talked about that briefly 11 earlier. As far as your opinions here, you say that the 12 mesh is not defective because of the way that it's cut. 13 Can you tell us a little bit more about how you came to 14 that conclusion?</p> <p>15 A. Right. So if you look at studies from 16 TTVT-O, there's some TTVT-O that's laser cut and some that's 17 mechanically cut. Personally, I think if you polled most 18 physicians, they wouldn't know the difference in what they 19 were holding. But if you were to look at the studies to 20 see if there was a difference, you're not going to find it. 21 And so based on that, you have to then conclude that 22 whether it's laser or mechanical cut, it's of no clinical 23 difference. There's just no studies. There's nothing 24 there to support it.</p> <p>25 Q. As far as your review in preparing your</p>	<p>1 describing a company trying to improve upon it, they 2 already have, yeah, I would expect that.</p> <p>3 MS. BAGGETT: I'll reserve the remainder 4 of my questions, if necessary, for rebuttal.</p> <p>5 (Time 1:20 p.m.)</p> <p style="text-align: center;">EXAMINATION</p> <p>7 BY MR. WALKER:</p> <p>8 Q. Doctor, do you recall being asked 9 questions about the issue of particle loss with respect to 10 mesh?</p> <p>11 A. I do.</p> <p>12 Q. In the course of preparing your expert 13 report, did you review the medical literature to determine 14 whether or not there was any clinically significant issue 15 with particle loss with respect to mesh?</p> <p>16 A. I never came across that.</p> <p>17 Q. Have you, in your experience, seen any 18 clinically significant problems stemming from particle loss 19 in mesh?</p> <p>20 A. I have not.</p> <p>21 Q. Do you recall being asked about 22 cytotoxicity and degradation?</p> <p>23 A. Yes.</p> <p>24 Q. And those are issues that you address in 25 your expert report, correct?</p>
<p style="text-align: center;">Page 175</p> <p>1 opinions on that matter in this case, do you recall 2 reviewing any documents, internal documents, from Ethicon 3 that suggest that there was a concern --</p> <p>4 A. Uh-huh.</p> <p>5 Q. -- with regard to these differences and 6 whether or not they actually did make a difference in the 7 success rates or the safety profile of the product?</p> <p>8 MR. WALKER: Object to form.</p> <p>9 A. Yes, I do remember seeing internal 10 documents and there were conversations. And I think those 11 conversations had to be had because there was a difference. 12 But, again, I'm looking at it from a perspective of is 13 there any data to suggest there's a problem or a 14 difference. And if there is, I'm not aware of it.</p> <p>15 So conversations and those things have to 16 take place within a company. I'm not worried about that. 17 It doesn't change my viewpoint. And I actually applaud 18 them for thinking outside the box. But I don't see that 19 it's been borne out in any literature.</p> <p>20 Q. If Ethicon were to become aware of the 21 inferiority of a particular aspect of their product, would 22 you expect them to take the steps necessary to fix whatever 23 was making the product inferior in some aspect?</p> <p>24 MR. WALKER: Object to form.</p> <p>25 A. You know, in that situation, if you're</p>	<p style="text-align: center;">Page 177</p> <p>1 A. Correct.</p> <p>2 Q. Do you plan to offer an opinion about the 3 biocompatibility of mesh?</p> <p>4 A. Yes.</p> <p>5 Q. And what is that opinion?</p> <p>6 A. That it is biocompatible.</p> <p>7 Q. And do you have an opinion as to whether 8 or not mesh used in TTVT-O and TTVT-Secur is cytotoxic?</p> <p>9 A. Am I going to give an opinion about that?</p> <p>10 Q. Yes.</p> <p>11 A. Yes, I am.</p> <p>12 Q. And what is that opinion?</p> <p>13 A. That it's not cytotoxic.</p> <p>14 Q. And what do you base that opinion on?</p> <p>15 A. My research, my personal experience, 16 meetings, literature, all the things that come about. All 17 these things have to be processed from a positive and a 18 negative standpoint, and after reviewing that, that's my 19 opinion.</p> <p>20 Q. And you were asked a number of questions 21 about degradation as well.</p> <p>22 A. Yes, sir.</p> <p>23 Q. Do you recall reviewing any internal 24 company documents that dealt with the issue of degradation 25 of prolene?</p>

Page 178	Page 180
<p>1 A. Yes.</p> <p>2 Q. And when you were forming your opinions in 3 this case, did you consult the medical literature to 4 determine whether or not degradation of prolene is a 5 clinically concerning issue?</p> <p>6 A. I did.</p> <p>7 Q. And what is your opinion with regards to 8 the degradation of mesh?</p> <p>9 A. Well, I've never seen it degrade. I've 10 never seen any studies that say it degrades, that it turns 11 into nothing. So, I mean, there's really no data at this 12 point.</p> <p>13 Q. And have you reviewed medical literature 14 that concludes that prolene does not degrade?</p> <p>15 A. Yes.</p> <p>16 Q. And did you rely on that literature when 17 you formed your opinions?</p> <p>18 A. Yes.</p> <p>19 Q. You were asked a number of questions about 20 polypropylene and then questions about prolene. Just so 21 the record is clear, you understand that polypropylene is a 22 component of prolene, correct?</p> <p>23 A. Right. It's not just the prolene.</p> <p>24 Q. And prolene is polypropylene plus the 25 additives the company has put into it, correct?</p>	<p>1 Q. And would you agree that internal company 2 documents lack the benefit of the creative process that 3 you're going to find in medical literature?</p> <p>4 A. Correct.</p> <p>5 Q. The Tips & Tricks document came up a 6 number of times in the deposition. Do you recall that?</p> <p>7 A. Yes.</p> <p>8 Q. And do you recall seeing internal company 9 documents that demonstrated that Ethicon disseminated that 10 information to surgeons regarding the TVT-Secur?</p> <p>11 A. Yes.</p> <p>12 Q. And is that a document or are those 13 documents that you relied on when you formed your opinion 14 about the adequacy of Ethicon's professional education with 15 respect to TVT-Secur?</p> <p>16 A. Yes, that was part of it. I saw that they 17 were making an effort to improve upon what was already 18 going on.</p> <p>19 Q. You were asked some questions about the 20 pore size, specifically affected porosity. Do you recall 21 that?</p> <p>22 A. Yes, sir.</p> <p>23 Q. And when you were forming your opinions in 24 this case, you considered the issue of the pore size of the 25 mesh, correct?</p>
Page 179	Page 181
<p>1 A. Correct.</p> <p>2 Q. You were shown a number of internal 3 company documents by plaintiff's counsel during today's 4 deposition. Do you recall that?</p> <p>5 A. Yes.</p> <p>6 Q. As a pelvic floor surgeon, when you are 7 looking to form opinions regarding a medical device, where 8 would internal company documents rank on the spectrum of 9 what sources of information you're going to give weight to?</p> <p>10 A. Extremely low. Meta analysis, randomized 11 controlled trials, everything in the case studies would be 12 very high. Clinical experience is down a little bit lower 13 and then below that would be internal company documents 14 about conversations about the mesh.</p> <p>15 Q. And why would you place internal company 16 documents below those other sources of information?</p> <p>17 A. Because those are opinions. There's no 18 facts. I mean, if there is facts, they haven't been -- if 19 there's any shred of a fact, they have to prove it somehow, 20 and those opinions just don't -- are just case-specific 21 opinions.</p> <p>22 Q. So you would agree that internal company 23 documents are not what we would call Level 1 evidence?</p> <p>24 A. Yes.</p> <p>25 MS. BAGGETT: Object to form.</p>	<p>1 A. I have to.</p> <p>2 Q. And did you review the medical literature 3 with an eye towards forming your opinions regarding the 4 adequacy of the pore size of the mesh?</p> <p>5 A. From what I could, yes, sir.</p> <p>6 Q. In your review of the medical literature, 7 did you see any evidence that the physiological forces 8 applied to the mesh will deform its shape in such a way 9 that the pore sizes are compromised in a clinically 10 concerning way?</p> <p>11 A. Not physiologic forces, no.</p> <p>12 Q. Are you aware of any objective medical 13 evidence or medical literature that has found that the pore 14 size of TVT-O or TVT-Secur mesh, once it's been implanted 15 in the body and integrated into the tissues, becomes 16 inadequate or too small?</p> <p>17 A. I never came across that.</p> <p>18 Q. You were asked some questions about the 19 weight of the mesh and the existence of other 20 lighter-weight mesh materials. Do you recall that?</p> <p>21 A. Yes.</p> <p>22 Q. Do you recall reviewing company documents 23 regarding a project TOPA?</p> <p>24 A. Yes.</p> <p>25 Q. What was this project TOPA?</p>

Page 182	Page 184
<p>1 A. TOPA stood for transobturator. That was 2 partially what it was. So they were looking at a 3 lighter-weight mesh for incontinence. 4 Q. And were the company's efforts with 5 respect to developing a lighter-weight mesh to treat 6 incontinence successful? 7 A. No. No, they failed miserably. 8 Q. In fact, they failed six cadaver labs, 9 correct? 10 MS. BAGGETT: Object to form. 11 A. Right. 12 Q. And does the fact that the company failed 13 in its efforts to develop a lighter-weight mesh to treat 14 incontinence, is that something that you considered when 15 you formed your opinions about the feasibility of a 16 lighter-weight mesh to treat SUI? 17 MS. BAGGETT: Object to form. 18 A. Again, we've got to go back to lightweight 19 and heavyweight, and that's a little bit confusing to me. 20 But in response, they did try to come up with a different 21 type of mesh. But, yeah. So that definitely made me 22 realize that just because something is "lighter weight" 23 doesn't necessarily mean it's better for that particular 24 situation. 25 Q. You were asked some questions about the</p>	<p>1 record is clear, that is what? 2 A. Tab 50 is the American Urologic -- or the 3 American Urogynecologic Society and SUFU Position 4 Statement. 5 Q. And this is a position statement that you 6 read and relied upon when forming your opinions? 7 A. Right. 8 Q. In fact, you referred to it in your expert 9 report. 10 A. Exactly. Yes, sir. 11 Q. And then at the end of this position 12 statement, does it lists these organizations that were 13 endorsing that statement? 14 A. It does. 15 Q. Which ones? Which organizations endorsed 16 the AUGS/SUFU position statement? 17 A. The American Association of Gynecological 18 Laparoscopists, the American College of Obstetricians and 19 Gynecologists, the National Association for Incontinence, 20 the Society of Gynecologic Surgeons, and Women's Health 21 Foundation. 22 Q. Doctor, you were asked a number of 23 questions about warnings and the requirements for what 24 belongs in an IFU. 25 Am I correct that you intend to offer</p>
<p style="text-align: center;">Page 183</p> <p>1 complication rates of TVT-Secur relative to other slings. 2 Do you recall that? 3 A. Yes, sir. 4 Q. And I believe you testified that the 5 medical literature essentially showed similarity in 6 complication rates between Secur and other slings like 7 TVT-O; is that correct? 8 A. Right. 9 Q. Did you see in your review of the 10 literature any findings that the laser cut quality of 11 TVT-Secur was causing any increase in erosions or other 12 complications? 13 A. That wasn't something that I came across. 14 I never saw that mentioned. 15 Q. And you looked at a number of studies 16 dealing with TVT-Secur and TVT-O, correct? 17 A. I looked at hundreds and hundreds of 18 studies. 19 Q. If I could direct your attention to tab 50 20 of what was marked as Exhibit Number 7. You were asked 21 about a statement in your report concerning the other 22 professional societies that were endorsing this AUGS/SUFU 23 position statement. Do you recall those questions? 24 A. I do. 25 Q. Do you see -- in tab 50, just so the</p>	<p style="text-align: center;">Page 185</p> <p>1 opinions regarding what is commonly known amongst pelvic 2 floor surgeons in terms of potential risks and 3 complications associated with vaginal surgery? 4 A. Yes. 5 Q. And in terms of having an opinion about 6 what risks or complications would be commonly known amongst 7 pelvic floor surgeons, what would you base your opinions 8 on? 9 A. What is commonly known? Well, textbooks, 10 journals, personal experience, clinical trials, those type 11 of things. 12 Q. And that would be true with respect to all 13 of the potential risks and complications that you address 14 in your expert report; is that correct? 15 A. I do. Yes, I do. There are -- a lot of 16 the aspects of what you're describing are things that are 17 general complications that can occur with any pelvic 18 surgery. Are there some that are specific for mesh? Yes. 19 We already know those are accepted known side effects. 20 Okay? But anybody who performs pelvic surgery is aware of 21 all of those to begin with. 22 Q. Doctor, are all of the general opinions 23 that you intend to offer regarding TVT-O and TVT-Secur 24 contained either in your expert report or in testimony that 25 you've provided today?</p>

Page 186	Page 188
1 A. As of now, yes.	1 not it's clinically significant?
2 Q. And are all of those opinions based on	2 A. I'm not involved in a study of that
3 your education, training, experience, review of the medical	3 nature.
4 literature?	4 Q. You were asked about ranking the
5 A. Yes.	5 importance of information that you relied on in determining
6 Q. Do you offer all of these opinions to a	6 your opinions in this case, and with respect to the
7 reasonable degree of medical certainty?	7 internal documents, obviously, they are not Level 1
8 A. I do.	8 evidence like a study would be, but do the internal
9 MR. WALKER: That's all I have, Doctor.	9 conversations and recordings of the device manufacturer
10 Thank you.	10 that place a product on the market have any bearing -- any
11 MS. BAGGETT: Very quickly, just a couple	11 insight that you can glean from the development of that
12 of things.	12 product and the company's understanding of that product?
13 (Time 1:34 p.m.)	13 MR. WALKER: Object to form.
14 EXAMINATION	14 A. That would be something that -- no, I
15 BY MS. BAGGETT:	15 cannot tell from just those company documents what their
16 Q. Now, in the questioning by defense counsel	16 next step would be. What I can tell you is when I see
17 you were asked about particle loss and whether or not it's	17 company documents like that, it just tells me that the
18 had a clinically significant impact on patients that you've	18 company is always reviewing what's going on. And I
19 treated. At least that's the way I understood it. You can	19 wouldn't anticipate, even if they were doing -- whether the
20 correct me if that's wrong.	20 product they feel is doing perfectly or there's some
21 But my question is, have you been trained	21 improvements on it, I would anticipate internal documents
22 in pathology or do you perform any activities involving	22 to try to comment on things they can continue to improve
23 analysis of pathological specimens?	23 on. And whether that has -- you know, those things have no
24 A. We have been trained in pathology as part	24 basis as far as what actually happens with the patients and
25 of our residency training and part of the testing that we	25 the clinical data, all of that. So it's something we
Page 187	Page 189
1 have to do when we get out of residency. As far as the	1 consider, but it's to be expected I would imagine.
2 day-to-day processing of it, no, but it is something that	2 Q. Does the review of those materials, the
3 we will oftentimes go to the pathologist and review slides	3 company documents, play a role in completing the picture of
4 and discuss things with him, go to tumor conferences, other	4 your understanding of the development of the device and an
5 things where we have to discuss pathology and review	5 understanding of the appropriateness of the device for the
6 pathology.	6 application that we are here today about with regards to
7 Q. In your normal course of practice, is it	7 the pelvic anatomy of a women?
8 your habit to review the pathology that you remove from	8 MR. WALKER: Object to form.
9 your patients for any signs of particle loss or the impact	9 A. It's part of the equation, yes, ma'am.
10 that it may or may not have on it? Is that something that	10 Q. And you were asked about the Tips & Tricks
11 you do routinely in your practice?	11 and the fact that Ethicon attempted to disseminate that
12 A. That's something that nobody does	12 information to the doctors.
13 routinely, ma'am.	13 Do you know if the dissemination of that
14 Q. And you have not undertaken any efforts to	14 document was limited in any way to certain groups of
15 study whether or not there is particle loss and whether or	15 doctors or if it was provided across-the-board to anyone
16 not that particle loss has any clinically significant	16 who --
17 impact on the outcomes of the patients who were implanted	17 A. I can't recall.
18 with the device, have you?	18 Q. And do you know if Ethicon undertook
19 A. So you're asking me if I've looked at any	19 efforts to make sure that everyone implanting the device
20 studies based on particle loss?	20 was provided with that information?
21 Q. No. No. It's even simpler than that.	21 MR. WALKER: Object to form.
22 Have you conducted any studies or analyses and are you	22 A. I do recall that there was an effort,
23 involved in any study that looks at the pathology of	23 concerted effort. I don't know. I can't recall the
24 removed mesh devices to determine whether or not particle	24 document, but I do remember there was an effort to say we
25 loss is something that happens, that occurs and whether or	25 need to get this out to the physicians out in the field.

Page 190	Page 192
<p>1 Q. But you're not aware of whether or not 2 that information was limited to any particular group of 3 doctors. You feel that it was disseminated to all doctors 4 equally.</p> <p>5 A. I can only say -- and I can't say whether 6 it got to all doctors or not.</p> <p>7 Q. Okay. You were asked questions about 8 TOPA, and we didn't go over that so I'm just going to ask 9 you a couple of questions about that.</p> <p>10 And I think you stated that you understood 11 that TOPA was an attempt to evaluate a lighter-weight mesh 12 for the applications similar to the devices we're looking 13 at today. And I think you said that it was unsuccessful 14 because the mesh was too stretchy or too -- you tell me. 15 You said it was unsuccessful because --</p> <p>16 A. I said it was unsuccessful. I didn't say 17 why.</p> <p>18 Q. Okay. And what is your understanding of 19 why it was unsuccessful?</p> <p>20 A. It wasn't strong enough.</p> <p>21 Q. And have you reviewed the deposition 22 testimony in this litigation regarding that study?</p> <p>23 A. I think I reviewed bits and pieces of it, 24 but that's been many months ago, and I couldn't quote any 25 of it right now.</p>	<p>1 Matrix.</p> <p>2 A. I don't know anything about Matrix.</p> <p>3 Q. And do you know if a 510(k) was ever 4 submitted on TOPA?</p> <p>5 A. I don't know.</p> <p>6 Q. If Ethicon's expert testified project 7 SCIOM was killed for business reasons, would you disagree 8 with that?</p> <p>9 MR. WALKER: Object to form.</p> <p>10 A. I don't remember.</p> <p>11 Q. If Ethicon's employees testified that the 12 project Matrix was killed for business reasons, would you 13 disagree with that?</p> <p>14 MR. WALKER: Object to form.</p> <p>15 A. Again, I don't recollect anything about 16 that.</p> <p>17 Q. And the same with regard to TOPA?</p> <p>18 MR. WALKER: Object to form.</p> <p>19 A. From TOPA's standpoint, that just didn't 20 work, and after a while I think they realized that was 21 something they needed to abandon and maybe revisit for 22 another day. I don't know the reasons for that, though.</p> <p>23 Q. Did you ever review any of the cadaver 24 labs for TOPA?</p> <p>25 A. Yes, I do remember vaguely. I don't</p>
Page 191	Page 193
<p>1 Q. And do you know how many, if any, 2 documents that you reviewed related to that study other 3 than the study itself?</p> <p>4 MR. WALKER: I'm sorry. By "study," do 5 you mean just the project TOPA itself?</p> <p>6 MS. BAGGETT: Right. I'm sorry. Yes, 7 TOPA.</p> <p>8 THE WITNESS: I would say that I reviewed 9 five to ten documents, if that. I don't recall.</p> <p>10 It wasn't a large volume.</p> <p>11 BY MS. BAGGETT:</p> <p>12 Q. And do you know what project SCIOM was, 13 spelled S-C-I-O-M?</p> <p>14 A. That is -- I do remember reading about it, 15 but the details of it escape me right now.</p> <p>16 Q. Did you read any deposition testimony 17 regarding that as well?</p> <p>18 A. I probably did, but I don't recall.</p> <p>19 Q. And do you know what project Matrix is?</p> <p>20 A. No, ma'am.</p> <p>21 Q. Did Ethicon ever submit a 510(k) 22 submission -- are you aware of whether or not a 510(k) 23 submission was submitted for the SCIOM?</p> <p>24 A. I'm not sure.</p> <p>25 Q. And the same question with regard to the</p>	<p>1 remember any of the details, ma'am.</p> <p>2 Q. Did you talk to any of the engineers or 3 doctors who worked on any of those projects?</p> <p>4 A. No.</p> <p>5 Q. Do you know what the size of the mesh in 6 TOPA was?</p> <p>7 A. I can't recall.</p> <p>8 Q. Do you know what the pore size was?</p> <p>9 A. I can't recall.</p> <p>10 Q. Do you know what the weight was?</p> <p>11 A. No, ma'am.</p> <p>12 Q. Do you know what type of material was 13 used?</p> <p>14 A. That would be a guess. I shouldn't answer 15 that. I don't know for sure.</p> <p>16 Q. And the same questions with regard to 17 SCIOM and Matrix. If you want me to go through them all, I 18 will.</p> <p>19 A. No, ma'am. I don't remember.</p> <p>20 Q. You were asked about the AUGS position 21 statement and you went to it. You were asked to go to it 22 in your notebook. Is that tab 50?</p> <p>23 A. I believe that's right.</p> <p>24 Q. And I just wanted to bring back the 25 document we looked at earlier today that I had referenced</p>

Page 194	Page 196
<p>1 was Bates stamped MIL00268. And I just want you to take a 2 look at it and see if that refreshes your recollection as 3 to whether or not that is similar to or in any way related 4 to the document that you referenced in your testimony. 5 A. Okay. 6 Q. And other than the fact that I've 7 represented to you that that document, with the edits on 8 it, was produced in this litigation through the production 9 requests, did you review anything in preparing for your 10 deposition today or preparing for this report that you 11 drafted as to whether or not Ethicon had anything to do 12 with the editing and/or drafting of this position statement 13 that was produced through AUGS and SUFU? 14 MR. WALKER: Object to form. 15 A. Ma'am, I have no idea. This is just one 16 document. I have no idea if it was -- it doesn't tell me 17 where it came from, who edited it. There's just not enough 18 information for me to really comment on that. I don't 19 know. 20 Q. And that's kind of what I was asking. 21 Based only on my representation that this was produced by 22 Ethicon, you've not read anything in the materials that 23 suggested that Ethicon had anything to do with the drafting 24 or publishing of this document? 25 A. I'm not aware of any.</p>	<p>1 C E R T I F I C A T E 2 STATE OF TENNESSEE) 3 COUNTY OF KNOX) 4 I, Charlene M. Shade, LCR and Notary 5 Public, do hereby certify that I reported in machine 6 shorthand the deposition of BRIAN PARKER, M.D., called as a 7 witness for all purposes applicable; that the said witness 8 was duly sworn by me; that the reading and subscribing of 9 the deposition by the witness was waived; that the 10 foregoing pages were transcribed by me and constitute a 11 true and accurate record of the deposition of said witness. 12 I further certify that I am not an attorney 13 or counsel of any of the parties, nor an employee or 14 relative of any attorney or counsel connected with the 15 action, nor financially interested in the action. 16 Witness my hand and seal this the 3rd day 17 of April, 2017. 18 19 20 21</p> <hr/> <p>22 Charlene M. Shade, LCR Notary Public Tennessee LCR #105 23 24 My Commission Expires: 7-6-19 25</p>
<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</p>	